

contact east®



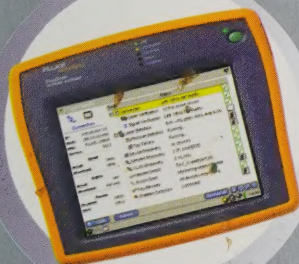
JENSEN®



Contract Holder
FSS Contract GS-06F-0020M

Master Sourcebook

Products for Testing, Assembling, Repairing & Installing Electronic Equipment™



www.contacteast.com 1-800-225-5370 www.jensentools.com

800-225-5370

Federal Government Sales
800-453-3169

See our GSA Schedule pricing at –
www.jensentools.com/GSAHardwarestore

States & Schools
800-225-5370

Custom Kits & Cases
800-426-1194

Let us help you with your
custom kit program call or email
toolkits@jensentools.com

International Sales
602-453-2511

To place an order, for worldwide shipping options and assistance with documentation

Product Support Specialists
888-866-5487

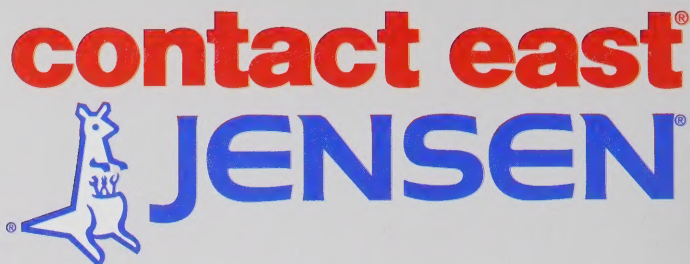
Customer Service
888-887-9473

Fax Orders
800-743-8141

Mail Order

Contact East / Jensen Tools
7815 S. 46th Street
Phoenix, AZ 85044

Corporate Offices
978-682-9844



Government Sales Team



Contract Holder
ESS Contract GS-06E-0020M



With over 36 years of experience selling to the federal government, our government sales team is available to assist you with our GSA Schedule, Federal Acquisition Regulations (FARs) and other related topics.

Call **800-453-3169**, visit
www.jensentools.com/GSAHardwarestore
or email us at **govt@stanleyworks.com**

International

We serve and ship globally. — Our multilingual personnel are ready to assist you. We also have stocking distributors in over 30 countries to help you with your local needs — in your own language! For a complete listing, visit **www.jensentools.com**

www.contacteast.com
www.jensentools.com

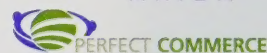
Enhancing Our Service Value with e-Solutions!

We know the challenges of doing business in a global, digital economy and because we appreciate the demands on your time, we continually look for new ways to enhance service value. Our e-commerce capabilities are second to none — we lead the industry in preparing and educating customers in the benefits of electronic procurement.

ORACLE®



Choose the Best e-Solution for Your Business.

[illegible]

PSMS™ — Let Us Manage Your Inventory

Production Supplies Management System

Web-Based VMI —

- » Automated Inventory Replenishment
- » Comprehensive Online Reporting
- » Ability to check Tool Crib stock from your desktop
- » Real-time transaction information

Avoid "down-time" on your production line and lower your overall procurement costs.

Use our on-line reporting to measure your savings, manage cost center budgets and monitor user accountability.

www.contacteast.com/inventory

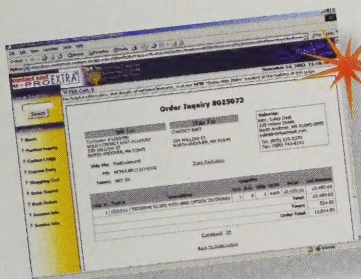
e-PRO Extra —

Your Quick Link to Customized On-line e-Procurement

YOURS FREE —

Use our web-based e-Procurement system.

- » Customer Specific Pricing
- » Express Order Entry
- » Real-time Product Availability
- » Order Limits & Approval Routing
- » Custom Parts Lists
- » On-Line Order Tracking



Order Status Visibility

*Track your orders on-line.
Get the details of your order
quickly & easily.*

Sign-up today at **<https://epro.contacteast.com>**

1-800-380-0112



These products are regulated by the Department of Transportation (DOT).



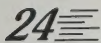
Products designed to be safe for use around static sensitive equipment.



This logo appears on quality products that offer a great value.



Exciting new products, many may not be available anywhere else.



We calibrate and ship these meters within 24 hours.



On all Jensen Branded Hand Tools.



Your assurance of originality.



Logo appears on products designed for use with conventional or lead-free solder products.

Tool Kits2

Test Equipment74

Lan & Telecom148

Hand & Power Tools ...216

Field Accessories326

Labels & Printers.....332

Static Protection340

Storage & Handling364

Workbenches & Chairs.....397

Magnification & Lighting414

Safety, Gloves & Cleanroom438

Adhesives & Dispensers448

Swabs, Wipes, Cleaners & Aerosols464

Soldering & Desoldering488

Index, Terms & Conditions546

JENSEN[®] *has the best*

JTK[®] Quality and Originality

For well over 30 years, Jensen has led the industry in providing tool kits for the professional field service technician. The key ingredient to our success has been – and always will be – our commitment to quality and originality. Our JTK trademark signifies an original Jensen design and is the symbol that sets us apart from the rest.



Name Brand Tools



Jensen kits contain reliable name-brand tools like Stanley, Klien, XceLite, Thomas & Betts and Jensen.

High Quality Tool Cases



Jensen provides a large selection of high quality tool cases to protect your tool investment. See pages 4 & 5.

Reinforced Pallets



Pallets with large quantities of heavy tools are reinforced with steel braces to virtually eliminate sagging.

Finest Materials



Tool Pallets are made from the finest materials to ensure long life. Tool pockets are reinforced with steel rivets at high stress points.

Customer Designed



Jensen tool kits are designed with input from our customers.



JTK-93LW Page 28

Tool Kits... Guaranteed!

Choose Your Kit!



Over 200 In-Stock Tool Kits

Jensen has over 200 in-stock, off-the-shelf tool kits to choose from. Substitutions are OK! Simply identify one of our in-stock tool kits that best suits your needs and add or delete items. Our customer service representatives are fully trained and available to assist you. Call 800-225-5370.



Custom Kits

Let us help you with your custom kit program. Every day, our Kit Team actively works with customers to design and build tool kits for unique requirements. For pallet layout design, custom foam cutouts, tool case fabrication, and building kits with your unique specifications of tools, labeling, logo's, etc. Please call us at 800-225-5370 with your requirements. Most inquiries will receive a written quote within 24 hours!



Create-A-Kit

Customize a tool kit specifically designed around your needs. Choose from six case styles and 18 pallet configurations. See pages 49 - 51.

Your Jensen Tool Kit Mini-Guide



Jensen offers a wide range of kits. Use this guide to quickly find the kit that best meets your needs.



JTK-87WW
Field Engineer's Kit
Page 9

General Electronic	page 6
Electro-Mechanical	page 28
Industrial Mechanical	page 33
Bio-Medical Kits	page 34
Telecom Kits	page 36
Network & Workstation Kits	page 41
Create-A-Kit	page 49
Vantage Kits	page 52

Jensen Guarantees and Warranties on Kits and Cases

30 Day Unconditional Guarantee

You may return any tool kit purchased from Jensen Tools within 30 days for a full refund, credit or replacement.

Lifetime Guarantee on Jensen Brand Hand Tools

If any Jensen brand hand tool ever fails to give you complete satisfaction, simply return it to us for a free replacement.



Jensen Polyethylene Cases

Polyethylene case shells are warranted against defects in materials and workmanship for three years from purchase date. (Tool pallets not included under warranty).

Latches and handles are warranted against defects in materials and workmanship for one year from purchase date.



Jensen Cordura® Plus & Aluminum Cases

Cordura® Plus and aluminum case shells are warranted against defects in materials and workmanship for one year from purchase date. (Tool pallets not included under warranty).

Latches and handles are warranted against defects in materials and workmanship for one year from purchase date.



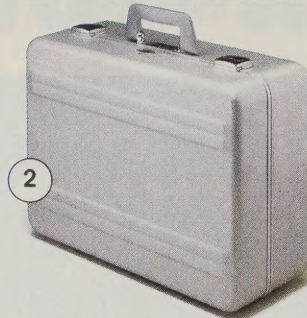
JTK-49
PC Workstation Kit
Page 48

Great Kits Start with Great Cases . . .



Monaco™ Cases

Rotationally molded polyethylene ensures uniform thickness. Extra corner thickness, piano hinge, keylock latches and combination lock. Black epoxy-coated tongue and groove aluminum valance.



Aluminum Cases with Lined Interior

Molded aluminum with chrome-plated latches and combination lock. Made to our specifications by Zero-Halliburton. Lightweight and strong. Piano hinge, tongue and groove closure with rubber gasket, and fully lined interior.



Deluxe Poly Cases

Vacuum formed high density polyethylene. Color won't fade, chip or rub off. Piano hinge, tongue and groove aluminum valance, chrome-plated locking latches, plus combination lock.



X-tra Rugged Rota-Tough™ Cases

Rotationally molded black polyethylene with uniform sides and walls, and raised reinforced ribs. Heavy-duty tongue and groove valance, full width piano hinge, lid document pouch, spring-loaded padded steel handle, positive closing 1/4-turn draw-bolt style latches and combination lock.



Super Tough Cases

Vacuum formed .250" high density gray polyethylene. Molded-in stacking feature. Tongue and groove aluminum closure, chrome-plated keylock latches, padded steel core handle, and lid document pouch.



Rugged Duty Poly Cases

Military style case (NSN 5140-01-301-3988), in black or olive drab, vacuum formed of extra heavy .250" high density polyethylene. Color won't fade, chip or rub off. Heavy-duty tongue and groove aluminum valance, spring-loaded steel handle, lid document pouch, combination lock and padlock hasp



Single Sided Cordura® Plus Cases

Features durable, long lasting Cordura Plus material, one large and two small outside pockets, heavy-duty double zippers, strong comfort grip handle, and D-rings for optional shoulder strap.



Double Sided Cordura® Plus Cases

The same features as the single sided cases plus two side compartments to carry up to four tool pallets or a combination of tools and test equipment/computer.



Triple Sided Cordura® Plus Cases

These cases offer the same features as the single and double sided cases, including two side compartments for up to four tool pallets, plus a middle section for test equipment/computer.

Replacement Hardware for Cases. From time to time it may be necessary to replace various parts due to normal wear associated with use. Replacement part information is available 24 hours/7 days on our web site at www.jensentools.com. Just click on technical documents, tool/shipping cases, replacement parts.



ORDER ONLINE www.jensentools.com • Phone: 800-225-5370 • Fax: 800-743-8141

... and Jensen Offers the Best!



Lightweight Poly Cases

Vacuum formed lightweight, high impact black polyethylene. Tongue and groove aluminum valance, key and combination lock.



Waterproof Cases

Built to Jensen specifications by Pelican®. Airtight and waterproof with purge valve. Black cyclac resin construction. Padlock hasp.



Rota-Tough™ Cases

Rotationally molded tough polyethylene. Walls have uniform thickness with impact resistant corners. Black epoxy-coated tongue and groove aluminum valance, ball bearing lid stays, lid document pouch, piano hinge and keylock latches.



Roto-Rugged™ Wheeled Cases

Rotationally molded heavy-duty polyethylene shell. Four ball-bearing recessed rubber wheels. Locking handle telescopes to 41". Steel curb/stair skids on bottom. Key and combination lock. Available in 8, 10, and 12" depths.



Super-Roto Wheeled Cases

Rotationally molded heavy-duty polyethylene shell. Horizontal orientation helps keep tools in place. Two ball-bearing recessed rubber wheels. Locking handle telescopes to 37". Steel curb/stair skids on bottom, 1/4-turn drawbolt style latches and padlock hasp. Available in 10 and 12" depths.



Horizontal Tough "Tote" Cases

Vacuum formed, high density polyethylene shell. Molded-in bumpers, tongue and groove aluminum valance, spring-loaded steel handle, key locking latches, padlock hasp, telescoping friction-controlled tote handle that extend to 38" and two rubber wheels.



Pallets Complete the Package . . . Six Styles to Satisfy Every Need

Jensen tool pallets are constructed from the finest materials to ensure long life. Tool pockets are made of Neoluxe and are reinforced with steel rivets at high-stress points. When mixing and matching pallets and cases, keep in mind that the pallet height and width must match the case (case dimensions are listed on each kit page).



Side Hinged Pallets provide a two pallet configuration with direct access to tools stored in the bottom of the case. A three pallet configuration is possible with the addition of a bottom pallet.



Bottom Hinged Pallets can only be interchanged with cases featuring bottom hinged pallets. Tools in the bottom of the case can be accessed easily simply by lifting up the bottom pallet.



Individual Pallets will interchange with any case style as long as the height and width are the same. Bottom pallet lifts out easily.



Winged Pallets allow easy access to all tools. Some configurations feature removable wing pallets, giving you the option to carry these tools only when needed.



Quick Change (QC) Pallets are used in the majority of our soft cases and feature a patented Quick Change mechanism that allows fast and easy pallet removal.


Fixed Pallets are sewn into the soft tool cases and are not removable.

All cases available empty. Please visit Jensentools.com or call 800-225-5370 for assistance.

JTK®-87 Tools

- Over 100 of our most requested tools
- Lifetime Guarantee on all JTK-87 hand tools

Over the years, customers like you have requested certain tools, pallet designs and cases. We've put these requests together in the JTK-87. You'll find all of the basic tools here - the essentials you need everyday on the job. A great selection of space-saving multi-purpose tools . . . plus specialty items.

For Case selections for the JTK-87
See Facing Page 

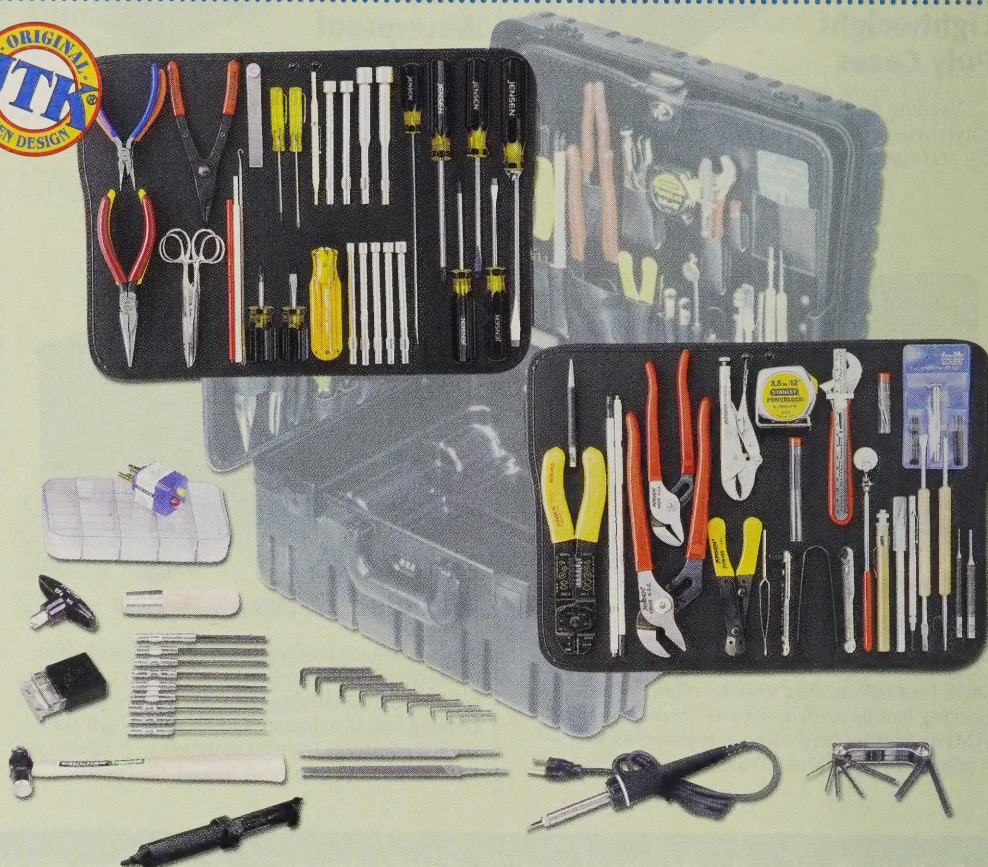
JTK®-87 Tools Only

All JTK-87 Tools are backed by
Jensen's Lifetime Guarantee

Over 100 tools in all:

Alignment tools (2)
Burnisher (pkg./3)
DIP/IC extractor
Feeler gauge
File kit, (3 pc.)
Hammer, ball peen, 4 oz.
Handle, driver blades,
(2): 4-1/8", "T"
Handle, File
Hemostat, straight, 5"
Hexdriver blades (9):
.050, 1/16, 5/64, 3/32,
7/64, 1/8, 9/64, 5/32,
3/16"
Hex key set, (10 pc.)
Hex key fold up
(7): 2-8mm
Knife precision
Knife blades
Magnifier 3X, 5X, 6X, 10X
Mirror, inspection
Nutdriver blades (9):
3/16, 7/32, 1/4, 9/32,
5/16, 1-1/32, 3/8, 7/16,
1/2"
Outlet tester
Parts box
Penlight
Pliers (7): diag. cutter 4-
1/4"; diag. cutter 5-
1/4"; groove joint 7";
groove joint 10"; long
nose 4-3/4"; long nose
with cutter 6-3/4";
retaining ring, external

Pliers, locking, 5"
Punch, center, 3/32"
Punch, pin (2): 1/16, 1/8"
Rule, stainless, 6"
Scissors, electrician's
Screwdrivers (12):
Phillips offset ratchet,
#0 x 3" pocket clip, #1
x 3", #2 stubby, #2 x
4"; slotted offset
ratchet, 1/8 x 3" pocket
clip, 1/8 x 8", 3/16 x 3",
1/4" stubby, 1/4 x 4",
5/16 x 6"
Screwdriver set,
jeweler's, (7 pc.)
Screwstarters (2):
Phillips magnetic;
slotted magnetic
Scriber
Solder aid, fork
and reamer
Solder aid, knife and
brush
Solder removal tool
Soldering iron*
Spring tool combination
Tape measure, 12'
Trimpot tool
Tweezer, reverse action
Wire crimper/stripper
Wire stripper/cutter
Wrench, adjustable, 6"
Tool case with pallets
*1 year warranty



Part No.	Description	Price Table
23-087R	JTK-87 Tools Only (Fractional)	\$380.00
24-087	JTK-87 Tools Only (Metric Equivalent)	\$395.00

Metric Add-On Kits

- 25 metric tools
- Converts JTK-87 series inch kits to inch/metric

Part No.	Description	Size	Price
9023-030	Metric Tools w/Small Pallet for Standard Cases	17-3/4" x 12-3/4"	\$122.00
9023-027	Metric Tools w/Large Pallet for Large Cases	17-3/4" x 14-1/2"	\$123.00
CK-87MM-C	Metric Tools in Black Cordura Tri-Fold Case	10" x 6" x 1-1/2"	\$120.00
CK-87MM	Metric Tools w/o Pallet	-	\$101.00

Note: Use Tri-Fold case when your case will not accept a third pallet.

All Metric Conversion Kit tools are backed by Jensen's Lifetime Guarantee

25 tools in all:

Feeler gauge, .051mm-1.02mm
Hex blades (7): 1.27mm-5mm
Mini-nutdrivers (2): 3mm, 3.5mm

Nutdriver blades (10): 4mm-11mm
Pin punches (3): 1mm-3mm
Rule, 15cm
Wire crimper/stripper



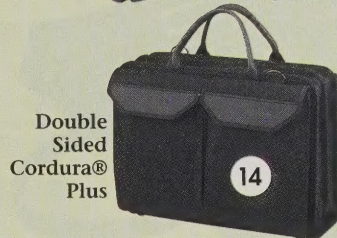
... Designed for any of these Quality Cases!

JTK®-87 Cases

- Choose from cases pictured on this page. For complete case descriptions, see pages 4 & 5.
- Kit choices are listed below. Selected kits are pictured on pages 8 - 11.



on all Jensen Polyethylene cases (see page 3)



JTK®-87 Tool Kit Guide

For additional tool kit information, please visit www.jensentools.com or call 800-225-5370.

Part. No.	Case Style (Ref. Pg. 4-5)	Page No.	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-87M	Monaco™	-	1	17-3/4 x 12-3/4 x 5"	19	Individual	\$550.00	377-326	\$175.00
JTK-87DM	Monaco™	-	1	17-3/4 x 12-3/4 x 7"	21	Side	\$560.00	377-328	\$185.00
JTK-87A	Aluminum	-	2	18 x 13 x 6"	22	Individual	\$715.00	2-587	\$360.00
JTK-87DAS	Aluminum	-	2	18 x 13 x 7-1/4"	21	Side	\$770.00	2-787	\$420.00
JTK-87L3DXP	Deluxe Poly, (inch/metric)	11	3	17-3/4 x 12-3/4 x 8"	25	Side	\$525.00	377-680	\$185.00
JTK-87XPM	Deluxe Poly, (metric)	-	3	17-3/4 x 12-3/4 x 5"	21	Individual	\$555.00	377-620	\$155.00
JTK-87P	Lightweight Poly,	-	4	17-3/4 x 12-3/4 x 4-3/4"	18	Individual	\$510.00	54-374	\$140.00
JTK-87DP	Lightweight Poly,	-	4	17-3/4 x 12-3/4 x 6-1/2"	21	Side	\$520.00	54-087	\$150.00
JTK-87WP	Waterproof Case	10	5	17-3/4 x 12-3/4 x 6-1/2"	21	Individual	\$620.00	432-521	\$250.00
JTK-87RT	Rota-Tough™	-	6	17-3/4 x 14-1/2 x 6"	20	Individual	\$550.00	377-859	\$175.00
JTK-87DRT	Rota-Tough™	-	6	17-3/4 x 14-1/2 x 8"	24	Side	\$560.00	377-858	\$185.00
JTK-87FLK7	Rota-Tough™, Foam	10	6	17-3/4 x 14-1/2 x 8"	30	Side	\$3,950.00	377-653	\$240.00
JTK-87FLK5	Rota-Tough™, Foam	10	6	17-3/4 x 14-1/2 x 8"	30	Side	\$1,995.00	377-653	\$240.00
JTK-87TEK4	Rota-Tough™, Foam	10	6	17-3/4 x 14-1/2 x 8"	35	Side	\$4,390.00	377-653	\$240.00
JTK-87RTF	Rota-Tough™, Foam	10	6	17-3/4 x 14-1/2 x 8"	24	Side	\$615.00	377-653	\$240.00
JTK-87XRRT	X-tra Rota-Tough™	-	7	17-3/4 x 14-1/2 x 10"	24	Side	\$580.00	377-227	\$205.00
JTK-87S	Super Tough	-	8	17-3/4 x 14-1/2 x 6-1/4"	21	Individual	\$530.00	377-885	\$155.00
JTK-87DS	Super Tough	-	8	17-3/4 x 14-1/2 x 9-1/4"	22	Side	\$540.00	377-886	\$165.00
JTK-87DST3	Super Tough, (inch/metric)	11	8	17-3/4 x 14-1/2 x 9-1/4"	26	Side	\$655.00	377-888	\$190.00
JTK-87R	Rugged Duty, Olive	-	9	17-3/4 x 14-1/2 x 9"	24	Side	\$565.00	356-870	\$190.00
JTK-87RB	Rugged Duty, Black	-	9	17-3/4 x 14-1/2 x 9"	24	Side	\$565.00	356-871	\$190.00
JTK-87RIM	Rugged Duty, Olive (inch/metric)	11	9	17-1/4 x 14-1/2 x 9"	27	Side	\$670.00	356-087	\$205.00
JTK-87WW	Roto-Rugged™ Wheeled	9	10	17-3/4 x 14-1/2 x 8"	26	Side	\$690.00	377-870	\$315.00
JTK-87WT	Roto-Rugged™ Wheeled	-	10	17-3/4 x 14-1/2 x 10"	26	Side	\$695.00	377-247	\$320.00
JTK-87WR	Roto-Rugged™ Wheeled	-	10	17-3/4 x 14-1/2 x 12"	26	Side	\$700.00	377-248	\$325.00
JTK-87HR	Super-Roto	-	11	17-3/4 x 14-1/2 x 10"	26	Side	\$690.00	54-006	\$315.00
JTK-87HRT	Super-Roto	-	11	17-3/4 x 14-1/2 x 12"	26	Side	\$695.00	54-007	\$320.00
JTK-87TT	Horizontal Tough "Tote"	9	12	17-3/4 x 14-1/2 x 10"	22	Side	\$610.00	356-409	\$235.00
JTK-87TTD	Horizontal Tough "Tote"	9	12	17-3/4 x 14-1/2 x 12"	24	Side	\$620.00	356-414	\$240.00
JTK-87BC	Double Cordura, Black	8	14	17-3/4 x 12-1/2 x 6"	16	Fixed	\$520.00	216-087	\$139.00
JTK-87QC	Triple Cordura, Black	8	15	17-3/4 x 12-3/4 x 11"	19	Quick Change	\$575.00	216-870	\$200.00
JTK-87B	Backpack	-	16	19-1/2 x 15 x 14"	14	Fixed	\$505.00	418-914	\$160.00



JTK® -87BC

Field Engineer's Zipper Kit

- Over 100 quality tools

Three outside storage pockets - one measures 16" x 11-1/2" x 2" and two measure 8" x 11-1/2" x 2". Also plenty of internal pockets for cell phone, test leads and more. Complete with D-rings for use with optional shoulder strap.



Optional Meters begin on page 74

For Prices & Specs - See bottom of page!



Shown with Optional Meter



Master Lock.

Secure Your Kit

TSA air travel approved

Part No.	Description	Price
425-137	Combination Lock	\$10.30



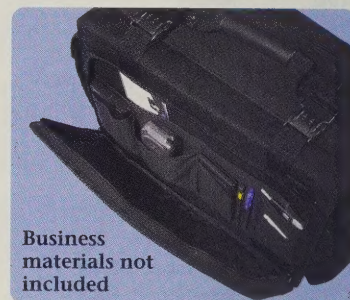
Lifetime Warranty

on all JTK-87 hand tools (see listing on page 6)

Meter sold separately



QC Clip makes pallet removal fast and easy



Business materials not included

JTK® -87QC

3-Sided Tool Kit

- Storage space for extra equipment

This durable Cordura case provides plenty of room for your tools, computer, test equipment and necessary business materials. Features combination locks and padded web handle. Center compartment (17 3/4 x 12 1/2 x 5 1/2") carries laptop computer on optional pallet.

Padded end pockets measure 10 x 6 x 4". External zipper pocket measures 10 x 17 3/4". D-rings attached for optional shoulder strap.

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Each
JTK-87BC	Field Engineer's Zipper Kit	Double Black	14	17 x 12-1/2 x 6	16	Fixed	\$520.00	216-087	\$139.00
JTK-87QC	3-Sided Tool Kit	Triple Black Cordura	15	17-3/4 x 12-3/4 x 11"	19	Quick Change	\$575.00	216-870	\$200.00
216-113	Optional Computer Pallet*	-	-	-	-	-	\$19.00	-	-
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-

* for JTK-87QC only



JTK®-87WW

Roto-Rugged™ Wheeled Tool Kit

- Our most rugged wheeled tool case
- Handle collapses for easy transport and storage
- Available in 8, 10 and 12" depths

Four recessed ball-bearing rubber wheels plus two steel curb/stair riders on bottom. Combination lock plus two key locking latches. Telescoping handle extends to 41-1/2".



on all Jensen Polyethylene cases (see page 3)



Telescoping handle extends to 41"
Roto-Rugged™ Wheeled Case



JTK-87WW



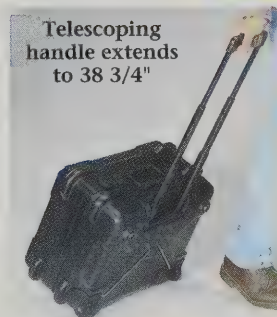
Lifetime Warranty

on all JTK-87 hand tools (see listing on Pg. 6)

JTK®-87TT

Horizontal Tough "Tote" Tool Kit

- Over 100 quality tools (see page 6)
- Horizontal design keeps tools in place
- Available in 10" and 12" depths



Telescoping handle extends to 38 3/4"



JTK-87TT



Master Lock.

Secure Your Kit

TSA air travel approved



Part No.	Description	Price
425-137	Combination Lock	\$10.30



on all Jensen Polyethylene cases (see page 3)

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Price
JTK-87WW	Wheeled Tool Kit	Roto-Rugged™ Wheeled	10	17-3/4 x 14-1/2 x 8"	26	Side	\$690.00	377-870	\$315.00
JTK-87TT	Wheeled Tool Kit	Horizontal Tough "Tote"	12	17-3/4 x 14-1/2 x 10"	24	Side	\$610.00	356-409	\$235.00
JTK-87TTD	Wheeled Tool Kit	Horizontal Tough "Tote", deep	12	17-3/4 x 14-1/2 x 12"	26	Side	\$620.00	356-414	\$240.00



JTK-87FLK7 includes a Fluke 199C ScopeMeter (417-791) and a Fluke 87-V DMM (424-283)



on all Jensen Polyethylene cases (see page 3)



on all JTK-87 hand tools (see listing on page 6)

JTK-87TEK4 includes a Tek Scope THS720A (404-407) and a Fluke 187 DMM (416-683)



JTK®-87

Tool and Test Combination Kits

- Toughest carrying case available
- Specially designed pallet holds meter
- Foam-filled compartment protects scope

Available with or without test equipment, our selection of JTK-87 kits with the latest in diagnostic technology supply the field engineer with maximum capabilities. Internal foam filled compartment measures 14-1/2 x 11-1/2 x 4".

For Prices & Specs - See bottom of page!



JTK®-87WP

Waterproof Tool Kit

- Over 100 quality tools
- Waterproof - it floats
- Airtight with purge valve

This rugged airtight, waterproof case provides the ultimate protection for your tools and equipment. Provides extra protection when working on or around the water. Tough cyclac resin construction won't dent, crack or corrode.

Case may also be ordered with any other Jensen kit which offers a case with same dimensions and a maximum of two tool pallets.



Combination Lock by Pelican®



on all Jensen Polyethylene cases (see page 3)

Part No.	Description	Price
432-001	Combination Lock	\$10.25

Part No.	Description	Case Style (Ref. Pg.4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Price
JTK-87FLK7	Kit with Fluke 199C & 87-V	Rota-Tough™	6	17-3/4 x 14-1/2 x 8"	30	Side	\$3,950.00	377-653	\$240.00
JTK-87FLK5	Kit with Fluke 123 and 179 DMM	Rota-Tough™	6	17-3/4 x 14-1/2 x 8"	30	Side	\$1,995.00	377-653	\$240.00
JTK-87TEK4	Kit with Tek THS720A & Fluke 187	Rota-Tough™	6	17-3/4 x 14-1/2 x 8"	35	Side	\$4,390.00	377-653	\$240.00
JTK-87RTF	Kit w/o Test Equipment	Rota-Tough™	6	17-3/4 x 14-1/2 x 8"	24	Side	\$615.00	377-653	\$240.00
JTK-87WP	Waterproof Tool Kit	Waterproof	5	17-3/4 x 12-3/4 x 6-1/2"	21	Individual	\$620.00	432-521	\$250.00



JTK®-87

Inch/Metric Tool Kit

- For techs who work on foreign and domestic equipment
- Three case styles to choose from

Contains all the JTK-87 tools plus 25 metric tools on the bottom pallet. Over 125 tools in all. See complete tool list on page 6.

For Prices & Specs -
See bottom
of page!



on all Jensen
Polyethylene cases
(see page 3)



JTK-87RIM

JTK-87DST3

JTK-87L3DXP



JTK-87RIM

Lifetime Warranty

on all JTK-87 hand tools
(see listing on page 6)



JTK®-87B

Backpack Tool Kit

- The ultimate in versatility
- Contains all the tools from our extremely popular JTK-87 kits

Carry your tools comfortably on your back while keeping your hands free. Tool pallets fold out for easy access. Clear parts pocket provides storage for small tools or test leads.

Case features heavy-duty dual-pull zippers, internal document pouch and rugged Cordura nylon exterior. Outside zipper pockets provide room for test equipment and laptop computer. Waist belt and padded shoulder straps are fully adjustable. Web strap handles allow for hand carry.

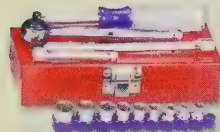
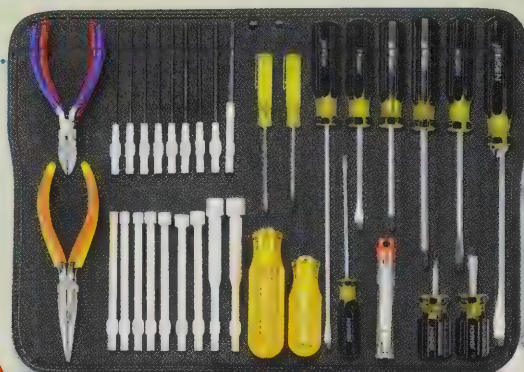
Part. No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Palette Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part. No.	Each
JTK-87RIM	Inch/Metric Kit	Rugged Duty Poly	9	17-3/4 x 14-1/2 x 9"	27	Side	\$670.00	356-087	\$205.00
JTK-87DST3	Inch/Metric Kit	Super Tough	8	17-3/4 x 14-1/2 x 9-1/2"	26	Side	\$655.00	377-888	\$190.00
JTK-87L3DXP	Inch/Metric Kit	Deluxe Poly	3	17-3/4 x 12-3/4 x 8"	25	Side	\$645.00	377-680	\$185.00
JTK-87B	BackPack Tool Kit	Backpack	-	19-1/2 x 15 x 14"	14	Fixed	\$505.00	418-914	\$10.15

JTK®-17 Tools Only

- Over 105 of the most requested tools for general electronic tasks
- Lifetime Guarantee on all JTK-17 hand tools

Over the years, the JTK-17 has been imitated, even duplicated, but never equaled. This multi-purpose kit was Jensen's first entry into the tool kit market. It was a huge success then and still is today. Widely used in industry and government.

For Case selections See Facing Page



JTK®-17 Tools

All JTK-17 Tools are backed by Jensen's Lifetime Guarantee

Over 105 tools in all:

- Alignment tools (2)
- Feeler gauge
- Hammer, ball peen, 4 oz.
- Handle, driver blades (2): 3-1/8, 4-1/8"
- Hex key set (10), .028-5/32"
- Hex key set (7): Fold up 1.5-6mm
- Hexdriver blades (9): .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16"
- Icepick scribe
- Knife, electrician's
- Mirror, inspection
- Nutdriver blades (9): 3/16, 7/32, 1/4, 9/32, 5/16, 1-1/32, 3/8, 7/16, 1/2"
- Penlight w/batteries
- Pliers (6): diagonal cutter, 4-1/4"; diagonal cutter, 5-1/4"; groove joint, 10"; long nose, 4-3/4"; long nose with cutter, 6-3/4"; retaining ring, external/internal
- Punch, center, 3/32"
- Punch, Pin (2): 1/16, 1/8"
- Rule, stainless, 6"
- Screwdriver, offset ratchet, Phillips/slotted
- Screwdriver, Phillips #0 x 3", pocket clip
- Screwdriver, Phillips (3): #1 x 3"; #2 x 1-1/4"; #2 x 4"
- Screwdriver, slotted 3/32 x 3", pocket clip
- Screwdriver, slotted (6): 1/8 x 4"; 1/8 x 8"; 3/16 x 3"; 1/4 x 1-1/4"; 1/4 x 4"; 5/16 x 6"
- Screwdriver set, jeweler's, (7 pc.)
- Screwstarter, Phillips/slotted
- Socket set, 1/4" drive, (14 pc.)
- Solder aid, fork and hook
- Soldering iron, 115V*
- Spring tool, pull
- Spring tool, push
- Tweezer, reverse action
- Wire crimper/stripper
- Wire stripper/cutter
- Wrench, adjustable (2): 4"; 8"
- Wrench set, ignition, (8 pc.)
- Tool case with pallets

*1 year warranty

Part No.	Description	Price
23-017R	JTK-17 Tools Only	\$330.00

Metric Add-On Kits

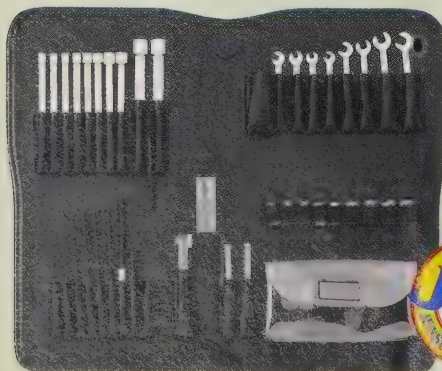
- 40 metric tools
- Converts JTK-17 series inch kits to inch/metric

Part No.	Description	Size	Price
9023-004	Metric Tools w/Small Pallet for Standard Cases	17-3/4" x 12-3/4"	\$119.00
9023-018	Metric add-on kit	17-3/4" x 14-1/2"	\$121.00
CK-17MM-C	Metric Tools in Black Cordura Tri-Fold Case	10" x 6" x 1-1/2"	\$110.00
CK-17MM	Metric Tools Without Pallet	-	\$96.90

Note: Use Trifold case (CK-17MM-C) when your case will not accept a third pallet.

All Metric Conversion Kit tools are backed by Jensen's Lifetime Guarantee

- 40 tools in all:
- Feeler gauge blades: .051-1.02mm
- Hex blades (7): 1.27-5mm
- Ignition wrenches (8): 4-9mm
- Mini-nutdrivers (2): 3, 3.5mm
- Nutdriver blades (10): 4-11mm
- Pin punches (2): 1, 3mm
- Rule, 15cm
- Socket set, 1/4" drive (9): 4-12mm



... Designed for any of these Quality Cases!

JTK®-17 Cases

- Choose from cases pictured on this page.
- Kit choices are listed below. Selected kits are pictured on pages 14-16.
- For complete case descriptions, see pages 4 and 5.



on all Jensen Polyethylene cases (see page 3)



Monaco™

Aluminum

Deluxe Poly

Lightweight Poly

Waterproof



Roto-Rugged™ Wheeled

Super-Roto Wheeled

Horizontal Tough "Tote"

Rota-Tough™

X-tra Rugged Rota-Tough™

Super Tough

Rugged Duty Poly



Double Sided Cordura® Plus

Triple Sided Cordura® Plus

JTK®-17 Tool Kit Guide

For additional tool kit information, please visit www.jensentools.com or call 800-426-1194

Part No.	Case Style (Ref. Pg. 4-5)	Page No.	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-17RL	Monaco	-	1	17-3/4 x 12-3/4 x 5"	20	Individual	\$505.00	377-851	\$180.00
JTK-17DRL	Monaco	-	1	17-3/4 x 12-3/4 x 7"	21	Bottom	\$515.00	377-849	\$190.00
JTK-17A	Aluminum	-	2	18 x 13 x 6"	21	Individual	\$680.00	2-517	\$365.00
JTK-17DA	Aluminum	-	2	18 x 13 x 7 1/4"	20	Individual	\$735.00	2-717	\$410.00
JTK-17LXP	Deluxe Poly, Black	-	3	17-3/4 x 12-3/4 x 5"	20	Individual	\$480.00	191-151	\$155.00
JTK-17LHXP	Deluxe Poly, Gray	-	3	17-3/4 x 12-3/4 x 8"	20	Bottom	\$490.00	377-520	\$165.00
JTK-17DXP3	Deluxe Poly, Gray (inch/metric)	16	3	17-3/4 x 12-3/4 x 8"	24	Bottom	\$615.00	377-173	\$195.00
JTK-17P	Lightweight Poly	-	4	17-3/4 x 12-3/4 x 4-3/4"	18	Individual	\$470.00	54-174	\$145.00
JTK-17DP	Lightweight Poly	-	4	17-3/4 x 12-3/4 x 6-1/2"	18	Bottom	\$475.00	54-173	\$150.00
JTK-17DP3	Lightweight Poly (inch/metric)	16	4	17-3/4 x 12-3/4 x 6-3/4"	22	Bottom	\$595.00	54-175	\$180.00
JTK-17WP	Waterproof	-	5	17-3/4 x 12-3/4 x 6-1/2"	20	Individual	\$585.00	432-522	\$260.00
JTK-17RT	Rota-Tough™	-	6	17-3/4 x 14-1/2 x 6"	20	Individual	\$500.00	377-852	\$175.00
JTK-17DRT	Rota-Tough™	-	6	17-3/4 x 14-1/2 x 8"	19	Bottom	\$510.00	377-853	\$185.00
JTK-17XRRT	X-tra Rota-Tough™	-	7	17-3/4 x 14-1/2 x 10"	22	Individual	\$540.00	377-265	\$215.00
JTK-17RRT3	X-tra Rota-Tough™ (inch/metric)	16	7	17-3/4 x 14-1/2 x 10"	24	Side	\$655.00	377-120	\$235.00
JTK-17LST	Super Tough, Gray	-	8	17-3/4 x 14-1/2 x 6-1/4"	20	Individual	\$480.00	377-500	\$155.00
JTK-17LSTB	Super Tough, Black	-	8	17-3/4 x 14-1/2 x 6-1/4"	20	Individual	\$480.00	54-084	\$155.00
JTK-17LHST	Super Tough, Gray	-	8	17-3/4 x 14-1/2 x 9-1/4"	22	Bottom	\$490.00	377-540	\$165.00
JTK-17STM	Super Tough, (Metric), Gray	16	8	17-3/4 x 14-1/2 x 6-1/4"	21	Individual	\$515.00	377-500	\$155.00
JTK-17R	Rugged Duty Poly, Olive	-	9	17-3/4 x 14-1/2 x 9"	22	Individual	\$520.00	356-170	\$195.00
JTK-17RB	Rugged Duty Poly, Black	-	9	17-3/4 x 14-1/2 x 9"	22	Individual	\$520.00	356-171	\$195.00
JTK-17WT	Roto-Rugged "Tote"	15	10	17-3/4 x 14-1/2 x 8"	26	Side	\$640.00	377-243	\$315.00
JTK-17WW	Roto-Rugged "Tote"	15	10	17-3/4 x 14-1/2 x 10"	27	Side	\$645.00	377-229	\$320.00
JTK-17WR	Roto-Rugged "Tote"	15	10	17-3/4 x 14-1/2 x 12"	27	Side	\$650.00	377-246	\$325.00
JTK-17HR	Super-Roto	-	11	17-3/4 x 14-1/2 x 10"	26	Side	\$640.00	54-020	\$315.00
JTK-17HRT	Super-Roto	-	11	17-3/4 x 14-1/2 x 12"	26	Side	\$645.00	54-021	\$320.00
JTK-17TT	Horizontal Tough "Tote"	15	12	17-3/4 x 14-1/2 x 10"	22	Side	\$565.00	356-411	\$240.00
JTK-17TTD	Horizontal Tough "Tote"	15	12	17-3/4 x 14-1/2 x 12"	24	Side	\$575.00	356-413	\$250.00
JTK-17BC	Double Sided Cordura, Blue	14	14	17-3/4 x 12-1/2 x 6"	15	Fixed	\$470.00	216-017	\$139.00
JTK-17BL	Double Sided Cordura, Black	14	14	17-3/4 x 12-1/2 x 6"	15	Fixed	\$470.00	419-647	\$139.00
JTK-17QC	Triple Sided Cordura, Black	14	15	17-3/4 x 12-3/4 x 11"	18	Quick Change	\$525.00	216-170	\$200.00
JTK-17B	Backpack	553	16	19-1/2 x 15 x 14"	14	Fixed	\$475.00	423-773	\$170.00



JTK® - 17BC

Field Service Zipper Kit

■ Rugged Cordura® Plus Case

This rugged Cordura case provides easy transport and access of your tools and business materials. Case includes three outside storage pockets, front pocket measures 16 x 11-1/2 x 2" and provides storage for documents. Two smaller outside pockets measure 8 x 11-1/2 x 2" and are perfect for carrying additional test equipment. Plenty of internal pockets for cell phone, test leads and more. D-rings attached for optional shoulder strap.

For Prices & Specs -
See bottom
of page!



JTK-17BL



JTK-17BC



Shown with
Optional Meter



Optional Meters
begin on page 74

Lifetime Guarantee on all JTK-17 Hand Tools (See listing on page 12)

JTK® - 17QC

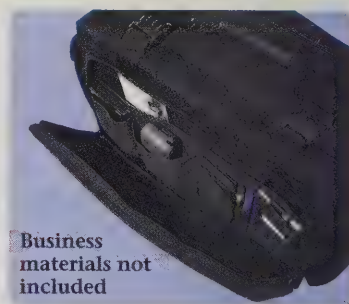
3-Sided Tool Kit

■ Storage space for extra equipment

This durable Cordura Plus case provides plenty of room for your tools, test equipment, computer and necessary business materials. Center compartment (17-3/4 x 12-1/2 x 5-1/2") carries laptop computer on optional pallet. Features two padded end-pockets (10 x 6 x 4"), combination locks and padded web-strap handle. External zipper pocket measures 10 x 17-3/4". D-rings attached for optional shoulder strap.



Shown with
Optional Meter



Business
materials not
included

QC Clip
makes pallet
removal fast
and easy.



Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets Only	
								Part No.	Each
JTK-17BC	Field Service Zipper Kit	Double Blue Cordura	14	17 x 12-1/2 x 6"	15	Fixed	\$470.00	216-017	\$139.00
JTK-17BL	Field Service Zipper Kit	Double Black Cordura	14	17 x 12-1/2 x 6"	15	Fixed	\$470.00	419-647	\$139.00
JTK-17QC	3-Sided Tool Kit	Triple Black Cordura	15	17-3/4 x 12-3/4 x 11"	18	Quick Change	\$525.00	216-170	\$200.00
216-113	Optional Computer Pallet*	-	-	-	-	-	\$19.00	-	-
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-

* for JTK-17QC only



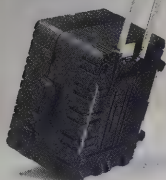
JTK®-17WW

Roto-Rugged™ Wheeled Tool Kit

- Our most rugged wheeled tool case
- Available in 8", 10", 12" depths

Case is rotationally molded for extra strength and features a telescoping handle and four ball-bearing rubber wheels for easy transport. Vertically oriented for easy transport through tight spaces. Key locking latches and combination lock.

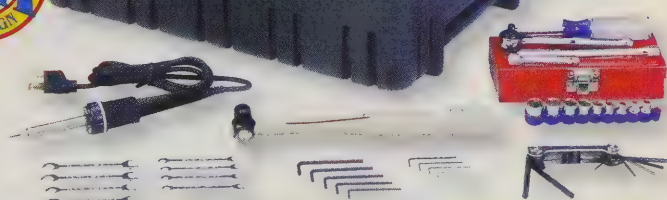
Telescoping handle stores in molded-in recess extends to 41"



JTK-17WW



on all Jensen Polyethylene cases (see page 3)



Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Price
JTK-17WT	Field Service Kit	Roto-Rugged™ Wheeled	10	17-3/4" x 14-1/2" x 8"	26	Side	\$640.00	377-243	\$315.00
JTK-17WW	Field Service Kit	Roto-Rugged™ Wheeled	10	17-3/4" x 14-1/2" x 10"	27	Side	\$645.00	377-229	\$320.00
JTK-17WR	Field Service Kit	Roto-Rugged™ Wheeled	10	17-3/4" x 14-1/2" x 12"	27	Side	\$650.00	377-246	\$325.00

Lifetime Guarantee

on all JTK-17 hand tools (See listing on page 12)

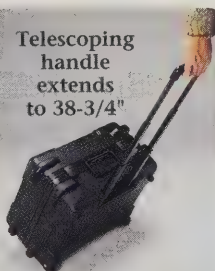
JTK®-17TT

Horizontal Tough "Tote" Tool Kit

- Horizontal design keeps tools in place
- Available in 10" & 12" depths

Case is vacuum formed with high density polyethylene. Features include molded-in bumpers, spring-loaded handle, key locking latches, padlock hasp, two rubber wheels and a telescoping friction-controlled tote handle.

Telescoping handle extends to 38-3/4"



on all Jensen Polyethylene cases (see page 3)



Master Lock.

Secure Your Kit

TSA air travel approved

Part No.	Description	Price
425-137	Combination Lock	\$10.30



Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Price
JTK-17TT	Field Service Kit	Horizontal Tough "Tote"	12	17-3/4" x 14-1/2" x 10"	22	Side	\$565.00	356-411	\$240.00
JTK-17TTD	Field Service Kit	Horizontal Tough "Tote", deep	12	17-3/4" x 14-1/2" x 12"	24	Side	\$575.00	356-413	\$250.00



JTK-17DP3

JTK®-17

Inch/Metric Tool Kits

- Service foreign and domestic equipment with a single kit
- Choice of side or bottom hinged pallets
- Contains JTK-17 tools plus metric tools (See page 12)



JTK-17DP3

JTK-17DXP3

JTK-17RRT3

For Prices & Specs -
See bottom
of page!



on all Jensen
Polyethylene cases
(see page 3)

Lifetime Warranty

on all JTK-17 hand tools
(see listing on page 12)

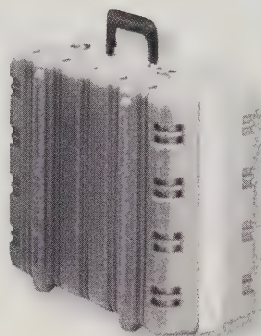
JTK®-17

Metric Tool Kit

- Jensen's extremely popular JTK-17 tool kit with metric equivalents
- Shown in our Super Tough case. Tool selection is also available in case styles 6-12 on pages 4 & 5.



on all Jensen
Polyethylene cases
(see page 3)



JTK-17STM

Part. No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part. No.	Price
JTK-17DP3	Inch/Metric Tool Kit	Lightweight Poly, Deep	4	17-3/4 x 12-3/4 x 6-3/4"	22	Bottom	\$595.00	54-175	\$180.00
JTK-17DXP3	Inch/Metric Tool Kit	Deluxe Poly, Deep	3	17-3/4 x 12-3/4 x 8"	24	Bottom	\$615.00	377-173	\$195.00
JTK-17RRT3	Inch/Metric Tool Kit	X-tra Rugged Rota-Tough™	7	17-3/4 x 14-1/2 x 10"	24	Side	\$655.00	377-120	\$235.00
JTK-17STM	Metric Tool Kit	Super Tough	8	17-3/4 x 14-1/2 x 6-1/4"	21	Individual	\$515.00	377-500	\$155.00
24-017	JTK-17STM Tools only	-	-	-	11	-	\$365.00	-	-



on all Jensen
Polyethylene cases
(see page 3)

JTK®-77

Deluxe Field Service Kit

- Contains all the tools from our extremely popular JTK-17 tool kit (page 12) plus 24 extra tools on the third pallet (listed below)
- Over 125 tools in all.

Tool kits come with three tool pallets. Third individual pallet stores in bottom of case.

The JTK-77 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

24 additional tools:

Brushes (2): scratch, brass;
typewriter, nylon
Caliper, dial, 6"
Extension blade, 7"
Files, flexible (3)
Hacksaw
Handle, driver, blades, T-style
Hemostats (2) 3-1/2"; 6"
Lamp extractor
Lead former

Outlet tester
Parts boxes, 2
Pliers (2): Ignition 5"; locking, 7"
Reamer blade
Soldering iron
Solder removal tool
Spudger
Tape measure, 12"
Trimpot tool
Tri-tap tool
Tool case with pallets

JTK-77DP

JTK-77DRT

JTK-77DST



JTK-77DST

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-77DP	Deluxe Field Service Kit	Lightweight Poly	4	17-3/4 x 12-3/4 x 6-1/2"	23	Bottom Hinge	\$645.00	54-773	\$170.00
JTK-77DRT	Deluxe Field Service Kit	Rota-Tough™	6	17-3/4 x 14-1/2 x 9-1/4"	24	Bottom Hinge	\$685.00	377-307	\$210.00
JTK-77DST	Deluxe Field Service Kit	Super Tough	8	17-3/4 x 14-1/2 x 9-1/4"	27	Bottom Hinge	\$660.00	377-306	\$190.00

JTK®-55

Field Service Tool Kit

- Derived from our extremely popular JTK-17 tool kit
 - Over 100 tools in your choice of case styles
- Includes a full range of fixed-handle screwdrivers, nutdrives and hexdrivers.

The JTK-55 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 100 tools in all:

Alignment tools, 2
Burnishers, 3
Feeler gauge
Hammer, ball peen, 4 oz.
Hexdrivers (9): 050, 1/16 - 3/16"
Hex key set, metric, 2-8mm, 7 pc.
Icepick/scribe
Knife, electrician's
Mirror, inspection
Nutdrivers (9): 3/16 - 1/2"
Oiler
Penlight w/batteries
Pliers (6): diag. cutter, 4-1/4"; diag. cutter, 5-1/4"; groove joint, 10"; long nose, 4-3/4"; long nose with cutter, 6 3/4"; retaining ring, internal/external
Punches (3): center, 3/32"; pin, 1/16"; pin, 1/8"
Rule, Stainless, 6"
Scissors, thin line

Screwdrivers (12): offset, ratchet, slot/Phillips; Phillips #0 x 3", pocket clip; Phillips #1 x 3"; Phillips #2, stubby; Phillips #2 x 4"; slotted, 3/32 x 3", pocket clip; slotted 1/8 x 4"; slotted 1/8 x 8"; slotted, 3/16 x 3"; 1/4" stubby; slotted 1/4 x 4"; slotted 5/16 x 6"

Screwdriver set, jeweler's, 7pc.
Screwstarter, Phillips/slotted
Socket set, 1/4" drive, 14 pc.
Solder aid, fork and hook
Solder brush
Soldering iron
Spring tools (2); pull; push
Tweezers, reverse action
Wire crimper/stripper
Wire stripper/cutter
Wrenches, adjustable (2): 4", 8"
Wrench set, ignition, 8 pc.
Tool case with pallets

JTK-55BXP

JTK-55LHSB

JTK-55LHST



on all Jensen
Polyethylene cases
(see page 3)

JTK-55LHST

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-55BXP	Field Service Tool Kit	Deluxe Poly	3	17-3/4 x 12-3/4 x 5"	20	Individual	\$490.00	356-055	\$150.00
JTK-55LHST	Field Service Tool Kit	Super Tough, Gray	8	17-3/4 x 14-1/2 x 9-1/4"	21	Side	\$515.00	377-525	\$165.00
JTK-55LHSB	Field Service Tool Kit	Super Tough, Black	8	17-3/4 x 14-1/2 x 9-1/4"	21	Side	\$515.00	54-085	\$165.00



JTK®-99

Electronic Technician's Service Kit

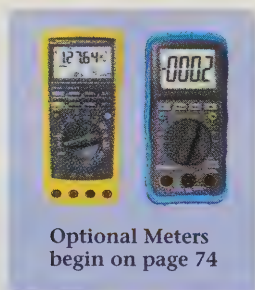
- A favorite of audio/video technicians
- Over 90 quality tools
- Choose from three case styles



JTK-99R

JTK-99DS

JTK-99XRRT



Optional Meters
begin on page 74



JTK-99R



on all Jensen
Polyethylene cases
(see page 3)

The JTK-99 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 90 tools in all:

Alignment tools, (3)
Bottles, plastic, (3)
Brush, cleaning
Burnisher, pocket
Caliper, pocket
Extension, driver blades, 4"
File, flat
File, rat tail
File, three square
Gauge, feeler
Hacksaw, mini

Hammer, ball peen, 4 oz.
Handle, 3-1/8"
Handle, 4-1/8"
Handle, file
Hemostat, straight, 5"
Hexdriver blades (9): .050; 1/16",
5/64", 3/32", 7/64", 1/8", 9/64",
5/32", 3/16"
Ice pick/scribe
Knife, electrician's
Lead former
Mirror, inspection

Nutdriver blades (9): 3/16",
7/32", 1/4", 9/32", 5/16",
1-1/32", 3/8", 7/16", 1/2"
Oil
Penlight w/batteries
Pliers (6): diag. cutter 4-1/4"; diag.
cutter 5-1/4"; groove joint, 7";
long nose, 4-3/4"; long nose
w/cutter, 6-3/4"; retaining ring,
external/internal
Pliers, locking, 5"
Punch, center, 3/32"

Punch, pin, 1/16"
Punch, pin, 1/8"
Reamer blade
Rule, stainless, 6"
Scissors*
Screwdriver, 4-in-1
Screwdriver, offset, #6-10 screws
Screwdriver, offset, Phillips #1, #2
Screwdriver blades (7): Phillips
#0, #1, #2; slotted, 1/8", 3/16",
1/4", 5/16"
Screwdriver, pocket, Phillips

Screwdriver, pocket, slotted
Screwstarters (2): Phillips; slotted
Socket set, 14 pc.
Solder
Solder aid, fork and reamer
Solder removal braid
Soldering iron
Spring tool, combination
Tweezers, reverse action
Wire stripper/crimper
Wrench, adjustable, 6"
Tool case with pallets

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Price
JTK-99R	Electronic Technician's Service Kit	Rugged Duty Poly	9	17-3/4" x 14-1/2" x 9"	26	Winged	\$575.00	356-990	\$210.00
JTK-99DS	Electronic Technician's Service Kit	Super Tough	8	17-3/4" x 14-1/2" x 9-1/4"	25	Winged	\$550.00	377-799	\$185.00
JTK-99XRRT	Electronic Technician's Service Kit	X-tra Rugged Rota-Tough™	7	17-3/4" x 14-1/2" x 10"	26	Winged	\$595.00	377-889	\$230.00

JTK® -48

Field Service Kit

- Available in inch or metric versions
- Double-sided Cordura® Plus case with padded section for test equipment

Case includes three large outside pockets: one measuring 17 x 10-1/4 x 2" and two measuring 8-1/2 x 10-1/4 x 2". Test equipment section is 17 x 12 x 4" to accommodate optional test equipment pallet. Extra wide, padded web strap handles and D-rings attached for optional shoulder strap. Metric version contains metric equivalent tools.



Shown with
Optional Test
Equipment Pallet



Master Lock.

Secure Your Kit

TSA air travel approved

Part No.	Description	Price
425-137	Combination Lock	\$10.30



QC Clip design makes pallet
removal fast and easy

The JTK-48 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Inch Set has 76 tools in all: **Metric Set has 72 tools in all:**

Contact insert/extraction tool
DIP/IC extractor
File set, needle (3)
Hammer, ball peen, 4 oz.
Knife, electrician's
Hemostat, 6"
Hex key set, BP (11) in Inch Set,
(7) in Metric Set

Handle, 4-1/8"
Mini-maglite
Mirror/magnetic retriever
Modular phone line tester
Nutdriver blades (9): 3/16, 7/32, 1/4, 9/32,
5/16, 11/32, 3/8, 7/16, 1/2"
Pliers, (6): diagonal cutter 4-1/4", diagonal
cutter 5-1/4", long nose 4-3/4", needle
nose 6", groove joint 7", locking 5"
Screwdriver, jeweler's set, 7 pc.

Screwdriver, offset ratchet, slotted/Phillips
Screwdrivers, Phillips, (3): #0 x 3",
#1 x 6", #2 x 4"
Screwdrivers, slotted, (4): 3/32 x 3", 1/8 x 6",
3/16 x 8", 1/4 x 4"
Screwdriver, 2-in-1, stubby
Screwstarters (2): 9/64 x 6", .102 x 6"
Scissors, electrician's
Solder removal braid
Soldering iron

Spring tool, combination
Torx drivers (3): tamper-proof, TT10,
TT15, TT20
Tape measure, 12'/3.5M
Trimpot tool
Tweezers, boley style
Wire stripper, 16-26 AWG
Wrench, adjustable, 6"
Wrench set (8): 13/64 - 3/8"
Cordura case

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-48	Inch Field Service Kit	Double Black Cordura	14	17-3/4 x 12-3/4 x 6-3/4"	16	Quick Change	\$455.00	216-048	\$150.00
JTK-48MM	Metric Field Service Kit	Double Black Cordura	14	17-3/4 x 12-3/4 x 6-3/4"	16	Quick Change	\$455.00	216-048	\$150.00
216-019	Optional Test Equipment Pallet	-	-	-	-	-	\$15.00	-	-
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-



JTK®-32

Electronic Equipment Installation & Service Kit

■ Choose between three case styles, all with removable tool pallets



JTK-32S

Slimline poly attache

Slimline poly case offers added protection and security when traveling. Features keylock latches and combination lock.



JTK-32Z Cordura Plus

Rugged Cordura Plus case has three outside storage pockets, front pocket measures 17" x 10-1/4" x 2" and provides storage for documents. Two smaller outside pockets measure 8-1/2" x 10-1/4" x 2" and are perfect for carrying additional test equipment. Plenty of internal pockets for cell phone, test leads and more. D-rings attached for optional shoulder strap.



JTK-32M Soft-Sided "Tote"

Carry all you tools, laptop and business materials in one rugged case. Handle extends to 37". See page 54 for additional case information.

JTK-32Z

JTK-32S



JTK-32M

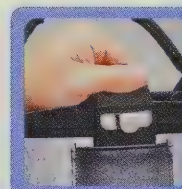
JTK-32M

The JTK-32 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 70 tools in all:

Alignment tool, double end, slotted
Balldriver set, inch (8): .050-5/32"
Balldriver set, metric (6): 1.5-5mm
DIP extractor
DIP inserter
Extension, blade, 7"
Handle, 4-1/8"
Hemostat, straight, 6"
Insert/extract tool #20
Mirror/magnet tool
Nutdriver blade set, inch (9): 3/16-1/2"
Pliers (6): Chain nose w/cutter 6-1/2";
mini chain nose 4-3/4"; diag. cutters 5";
mini diag. cutters 4"; groove joint 7";
locking long nose 6"

Rule, SS, 6"/15 cm with pocket clip
Screwdrivers (8): Phillips #0 x 3", #1 x 6",
#2 x 4"; slotted 3/32 x 3", 1/8 x 6",
3/16 x 3", 3/16 x 8", 1/4 x 4"
Screwdriver, 2-in-1
Socket set, 1/4" drive, (13): 3/16-1/2"
Solder Iron, 25W
Stripper, 16-26 AWG
Stripper/crimper
Torx® screwdrivers (3): T8, 10, 15
Trimpot adjustment tool
Wrench, adjustable, 4"
Wrench, combination, (7): 3/8-3/4"
Tool case with pallets



QC Clip makes pallet removal fast and easy for JTK-32Z and JTK-32M

Master Lock.



Secure Your Kit

TSA air travel approved



Part No.	Description	Price
425-137	Combination Lock	\$10.30

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Price
JTK-32S	Elec. Equip. Install & Serv. Kit	Slimline Poly Attache	-	17-3/4 x 12-3/4 x 5"	20	Individual	\$440.00	54-890	\$170.00
JTK-32Z	Elec. Equip. Install & Serv. Kit	Single Black Cordura	13	17-3/4 x 12-3/4 x 3-3/4"	17	Quick Change	\$380.00	216-320	\$110.00
JTK-32M	Elec. Equip. Install & Serv. Kit	Soft-Sided "Tote"	-	18 x 13 x 8.5"	23	Quick Change	\$520.00	419-644	\$250.00
216-432	Optional Black Shoulder Strap*	-	-	-	-	-	\$10.00	-	-

* for JTK-32Z and JTK-32M only



JTK®-47

Field Engineer's Kit

Everything You Need for General Electronics Service

- Multi-functional tool selection
- Rugged Cordura® Plus cases

Single Sided Case has three outside pockets: one is 15" x 10" x 2" and two are 7-1/2" x 10" x 2".

Double Sided Case features a padded internal pocket (14-3/4" x 10-1/2" x 1-1/2") that provides protection for your laptop computer or sensitive equipment. There are also three outside pockets: one is 14-3/4" x 11-3/4" x 2" and two are 7-1/4" x 11-1/4" x 2".

Cases have padded web strap handles and D-rings attached for optional shoulder strap.



JTK-47GC



JTK-47DBLB

JTK-47DBL

JTK-47GC



Master Lock.

Secure Your Kit

TSA air travel approved

Part No.	Description	Price
425-137	Combination Lock	\$10.30



JTK-47DBLB



The JTK-47 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 80 tools in all:

Feeler Gauge .0015" - .025"

File, needle, 6" (3)

Hammer, ball peen, 4 oz.

Hemostat, 5"

Hex key set, 10 pc.

Knife, pocket

Lead former

Mirror, inspection

Penlight w/batteries

Pliers, (7): diagonal cutter, 5-1/4"; diagonal cutter, 4-1/4"; groove joint, 7"; long nose with cutter, 6-3/4"; long nose, mini, 4-3/4"; retaining ring, int/ext.; locking, 6"

Punch, pins (2): 1/16" and 1/8"

Rule, stainless, 6"

Scissors

Screwdriver, offset ratchet, Phillips/slotted

Screwdrivers, Phillips

(3): #1 x 3"; #1 x 6"; #2 x 4"

Screwdrivers, slotted (3): 3/16" x 3"; 1/4" x 4"; 5/16" x 6"

Screwdriver, stubby, 2-in-1

Screwdriver set, jeweler's, 7 pc.

Screwstarter, Phillips/slotted

Scribe, pocket

Socket set, 1/4" drive, 13 pc.

Solder, pocket pack

Solder aid, fork/brush

Solder removal tool

Soldering iron

Spring tool, combination

Spudger

Tape measure, 12"/3.5m

Trimpot tool

Tweezers, reverse action

Wire crimper/stripper

Wire cutter/stripper

Wrench, adjustable, 6"

Wrench set, ignition, 8 pc.

Zipper tool case

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Price
JTK-47GC	Field Engineer's Kit	Single Gray Cordura	13	16-1/4" x 12" x 3"	11	Fixed	\$385.00	216-047	\$80.00
JTK-47DBL	Field Engineer's Kit	Double Gray Cordura	14	16-1/4" x 12" x 4-1/2"	14	Fixed	\$425.00	216-472	\$120.00
JTK-47DBLB	Field Engineer's Kit	Double Black Cordura	14	16-1/4" x 12" x 4-1/2"	14	Fixed	\$425.00	191-157	\$120.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-



Notebook computer/
paperwork pockets



Master Lock.

Secure Your Kit

TSA air travel approved

Part No.	Description	Price
425-137	Combination Lock	\$10.30



JTK®-19

3-Sided Tool Kit

- Great for carrying spare parts and test equipment
- Shoulder strap included

Designed for electronic technicians who service/repair a broad range of systems. Features a durable Cordura case that holds two full pallets of tools and provides a vast amount of storage. Computer section has room for a computer and documents. Center section can hold a large amount of paperwork or equipment, and measures 12-1/2 x 12 x 4".

The JTK-19 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 75 tools in all:

Cover, soldering iron
Extension blade, 4"
Handle, 4-1/8"
Handle, T-style
Hex blades, (9): .050-3/16"
Hex key set, (6): 1.5-5mm
Mirror/magnet retriever
Nutdriver blades, (9): 3/16-1/2"
Penlight, w/batteries
Pliers (6): long nose with cutter, 6";
diag. cutter, 4"; diag. cutter, 5";

groove joint; 7" long nose,
4-3/4"; locking, 5"
Rule, 6"/15cm, stainless steel
Scissors, electrician's
Screwdriver, 2-in-1
Screwdriver blades (4): slotted 1/4
and 3/16", Phillips #1 and #2
Screwdriver, offset: Phillips/slotted
Screwdrivers (7): slotted 1/4 x 4",
1/8 x 8", 3/32 x 3", 3/16 x 6";
Phillips #0 x 3, #1 x 6", #2 x 4"

Screwdriver set, jeweler's (6):
3 Phillips, 3 slotted
Screwstarter, double end
Socket set, 1/4" drive, 13 pc.
Solder Removal Braid
Soldering iron
Tweezers, Boley
Wire stripper/cutter
Wrench, adjustable, 6"
Zipper case

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Each
JTK-19	3-Sided Toolkit	Triple Black Cordura	-	17-1/2 x 12 x 9"	15	Fixed	\$420.00	54-019	\$155.00

Lifetime Guarantee

on all Jensen brand hand tools

JTK®-1002/1003

Clean Room Tool Kits

- Features inch and metric tools

We have taken every precaution to guard against particulate contamination and still provide the most functional clean room kit possible. Our PVC pallets are fully submersible in cleaning tanks or can be easily cleaned by hand. Cases are easily cleaned as well.

JTK-1002 contains all inch measure tools as well as metric tools on a third pallet.

JTK-1003 contains both inch and metric tools in a larger case. Features a side hinged pallet plus space in the bottom of the case for additional tools and test equipment.



JTK-1002



JTK-1003

JTK-1002/1003 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 110 Tools in all:

Alignment tools (2)
Feeler gauge, inch/metric
Handle, driver blades (2): 3-1/8; 4-1/8"
Hemostat
Hexdriver blades (9): .050-3/16"
Knife, pushbutton
Mirror, inspection
Nutdriver blades (9): 3/16-1/2"

Penlight w/batteries
Pliers (6): diag. cutter 4-1/4"; diag. cutter
5-1/4"; long nose 4-3/4"; long nose
w/cutter 6-3/4"; groove joint 10";
retaining ring, internal/external
Rule, stainless steel, 6"/15cm
Screwdriver, offset, Phillips/slotted
Screwdrivers, Phillips (4): #0 x 3"; #1 x 3";
#2 x 4"; #2 stubby

Screwdrivers, slotted (6): 1/8 x 3"; 3/16 x 3";
3/16 x 6"; 1/4 x 4"; 1/4" stubby; 5/16 x 6"
Screwdriver set, jeweler's, 7 pc.
Screwstarter, Phillips/slotted
Scissors, thinline
Socket set, 1/4" drive (13): 3/16-1/2"
Spring tool, combination
Wire crimper/stripper
Wire stripper, 16-26 AWG

Wrenches, adjustable (2): 4; 8"
Tool case, two pallets
41 Metric tools:
Hex driver blades (7): 1.27-5mm
Hex Key set (7): 2-8 mm
Nutdriver blades (10): 4-11mm
Socket set (9): 4-12mm
Wrench set, open end (8): 4-9mm
Tool case, three pallets

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Each
JTK-1002	Inch/Metric Clean Room Kit	Deluxe Poly	3	17-3/4 x 12-3/4 x 6"	20	Bottom	\$605.00	377-377	\$290.00
JTK-1003	Inch/Metric Clean Room Kit	Rota-Tough™	6	17-3/4 x 14-1/2 x 8"	25	Side	\$625.00	377-945	\$310.00



Shown with
Optional Meter

JTK®-36

Compact, Lightweight Service Engineer's Kit

- Fits inside luggage or briefcase
- Lightweight . . . only 7 lbs!

Provides all the basic tools for service, trouble-shooting and maintenance of computers, printers, business machines and other electronic equipment. Cordura® Plus zipper case features three outside pockets: one is 12 x 10 x 2" and two are 6 x 10 x 2". Plenty of internal pockets for cell phone, test leads, etc. Padded web strap handles and D-rings attached for optional shoulder strap.



Master Lock.

Secure Your Kit

TSA air travel approved

Part No.	Description	Price
425-137	Combination Lock	\$10.30



JTK-36BK



Optional Meters
begin on page 74

The JTK-36 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 50 tools in all:

Alignment tool
Burnishers (3)
Extension, 4"
File, Needle, 6-1/4"
Hemostat, 5"
Hex Key Set, (10): .028 - 5/32"

Knife, light-duty
Nutdriver blades (6): 3/16 - 1/2"
Penlight w/batteries
Pliers (5): diag. cutter, 4-1/4"; long nose, 4-3/4"; long nose, 6-3/4"; groove joint, 7"; retaining ring (Int/Ext)
Rule, stainless steel, 6"

Scissors
Screwdriver, offset slot/Phillips
Screwdriver, pocket (2) slot/Phillips
Screwdriver blades (4): Phillips #1, #2; slotted 3/16, 1/4"
Screwdriver set, jeweler's (6): slot/Phillips
Solder aid

Solder removal braid
Soldering iron
Trimpot tool
Wire stripper/cutter
Wrench, adjustable, 6"
Zipper tool case

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Price
JTK-36BK	Service Engineer's Kit	Single Black Cordura	13	13-1/2 x 10 x 2-1/2"	7	Fixed	\$255.00	54-036	\$70.00
JTK-36GC	Service Engineer's Kit	Single Grey Cordura	13	13-1/2 x 10 x 2-1/2"	7	Fixed	\$255.00	216-036	\$70.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-



JTK®-86

Technician's Tool Kit

- Our most popular lightweight technician's kit
- Lightweight . . . only 8 lbs!

You wouldn't expect to find a selection of tools like this in a zipper case. A complete 13-piece 1/4" drive socket set including ratchet, spinner handle and extensions, 9-blade foldup hex key set, 11-blade feeler gauge, plus locking pliers.

Also includes a set of four miniature Phillips metric screwdrivers, DIP remover, DIP clip, hemostat, trimpot adjusting tool, solder remover and other solder equipment, pliers and cutters, assorted screwdrivers, wire stripper, and more (see complete listing below).

Cordura Plus case features three outside pockets: two are 6 x 10 x 2", and one is 12 x 10 x 2". Plenty of internal pockets for cell phone, test leads and more. Padded web strap handles and D-rings attached for optional shoulder strap.

JTK-86BK

Shown with
Optional Meter



JTK-86BK

JTK-86GC

JTK-86C



Optional Meters
begin on page 74



Master Lock.

Secure Your Kit

TSA air travel approved

Part No.	Description	Price
425-137	Combination Lock	\$10.30



The JTK-86 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 55 tools in all:

Alignment tool
Burnisher
DIP clip, 16 pins installation
DIP remover, anti-static
Feeler gauge .0015 - .025"

File needle, 6-1/4"
Handle, driver blades, 4-1/8"
Hemostat, straight, 5"
Hex key set, fold up (9) .050-3/16"
Knife, light-duty
Mirror, inspection
Penlight w/batteries

Pliers (5): diagonal cutter, 4-1/4"; long nose, 4-3/4"; long nose with cutter, 6-3/4"; retaining ring, convertible locking, 6"
Rule, stainless, 6"
Scissors, electronic
Screwdriver, offset, Phillips/slotted

Screwdriver, Phillips #0 x 3"
Screwdriver, slotted, 3/32 x 3"
Screwdriver blades (4): Phillips #1, #2; slotted, 3/16, 1/4"
Screwdriver (4), Phillips, 1.5 - 3mm
Socket set, 1/4" drive, (13)
Solder aid, knife & brush

Solder removal tool
Soldering iron
Spring tool, combination
Trimpot adjustable tool
Wire stripper
Wrench, adjustable, 6"
Zipper tool case

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions(ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Price
JTK-86BK	Technician's Tool Kit	Single Black Cordura	13	13-1/2 x 10 x 2-1/2"	8	Fixed	\$305.00	54-086	\$80.00
JTK-86GC	Technician's Tool Kit	Single Grey Cordura	13	13-1/2 x 10 x 2-1/2"	8	Fixed	\$305.00	216-086	\$80.00
JTK-86C	Technician's Tool Kit	Single Brown Cordura	13	13-1/2 x 10 x 2-1/2"	8	Fixed	\$305.00	54-730	\$80.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-
216-548	Optional Brown Shoulder Strap	-	-	-	-	-	\$10.00	-	-



JTK®-16

Compact Technician's Kit

Over 40 multi-function tools for general electronic repair and installation. Gray Cordura® Plus case features three outside pockets: one measures 10-1/2" x 9" x 2" and two measure 5-1/2" x 9" x 2". Plenty of internal pockets for cell phone, test leads and more. Web strap handles with leather wrap and D-rings attached for optional shoulder strap.

The JTK-16 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 40 tools in all:

Alignment tools, 2 pc.

Burnisher

File, needle, flat

Handles, driver blades (2) 3-1/8", 4-1/8"

Hex key set, 10 pc.

Knife, precision with blade

Nutdriver blades (3) 1/4", 5/16", 3/8"

Pliers (4) diagonal cutter, 4-1/4";

groove joint, 6"; long nose, 4-3/4";

long nose with cutter, 6-3/4"

Rule, stainless, 6"

Screwdriver, Pocket (2) slot/phillips

Screwdriver blades,

Phillips (2) #1; #2

Screwdriver blades,

slotted (3) 3/16", 1/4", 5/16"

Screwdriver set, jeweler's (6) Phillips/slotted

Solder aid, fork and hook

Soldering iron

Wire stripper/cutter

Wrench, adjustable, 4"

Zipper case



Optional Meters
begin on page 74



Shown with
Optional
Meter

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
JTK-16GC	Compact Technician's Kit	Single Gray Cordura	13	11-1/2" x 10" x 2-1/2"	5	Fixed	\$205.00	216-016	\$60.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-

Lifetime Warranty

on all Jensen brand hand tools

JTK®-10

General Electronic Service Kit

A selection of over 50 quality tools for general electronic repair and installation. Cases are available in gray Cordura® Plus with black **leather** trim or black ballistic nylon with brown **leather** trim. Three large outside pockets for spare parts and test equipment: one is 11" x 9-1/2" x 2" and two are 5-1/2" x 9-1/2" x 2". Plenty of internal pockets for cell phone, test leads and more. Web strap handles with leather wrap and D-rings attached for optional shoulder strap.

The JTK-10 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 50 tools in all:

Hemostat, 6"

Hex keys, fold-up, 9 pcs. 050-3/16"

Knife, snap blade

Pliers, (4): diagonal cutter 4-1/4"; long nose with cutter

6-1/2"; groove joint 7"; locking pliers 5"

Rule, SS, 6"/15cm with pocket clip

Scissors, electrician's

Screwdriver set, jeweler's, 7 pc. slotted/Phillips

Screwdrivers (6): Phillips #0 x 2";

#1 x 3"; #2 x 4"; slotted 1/8" x 4";

3/16 x 4"; 1/4" x 4"

Socket set, 13 pc., 1/4" drive,

3/16-1/2"

Tape measure, 12'/3M

Torx fold-up, 7 pc., T6-T20

Wire stripper/cutter

Wrench, adjustable, 6"

Zipper case



Master Lock.

Secure Your Kit

Part No.	Description	Price
425-137	Combination Lock	\$10.30



Shown with
Optional Meter
and Soldering Iron



JTK-10GY

JTK-10B

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
JTK-10GY	General Electronic Service Kit	Single Gray Cordura	13	11-1/2" x 10" x 2-1/2"	7	Fixed	\$215.00	216-111	\$75.00
JTK-10B	General Electronic Service Kit	Single Black Nylon	13	11-1/2" x 10" x 2-1/2"	7	Fixed	\$220.00	216-112	\$80.00
47-723	Optional Solder Iron for JTK-10	-	-	-	-	-	\$32.25	-	-



Shown with optional
Shoulder Strap



JTK® -31

Multi-Purpose "Kit-in-a-Bag"

Comprehensive tool selection enables the technician to handle electrical, electronic, and mechanical tasks with ease. All tools fit into the rugged blue Cordura® Plus tool bag with plenty of room for extra equipment. Bag measures 12 x 6 x 5-1/2" and features inside and outside pockets for small tools. Strong web strap handle and zipper closure. D-rings attached for optional shoulder strap.

All JTK-31 Tools are backed by
Jensen's Lifetime Guarantee

33 tools in all:

Hammer, ball peen, 4 oz.
Hex key set, fold-up, 9 pc;
5/64 - 1/4"
Knife, electrician's
Pliers, groove joint, 7"
Pliers (4) kit with roll pouch:
diagonal cutter, 5-1/4";
long nose with cutter, 6-3/4";
mini diag. cutter, 4-1/4";
mini long nose, 4-3/4"
Pliers, locking, 7"
Screwdriver, magnetic tip
with 5 bits

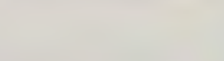
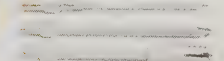
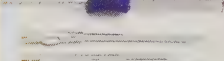
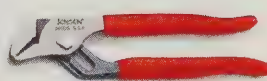
Screwdriver set in pouch (5):
slotted pocket clip; 3/32 x 3";
slotted 3/16 x 3", 1/4 x 4";
Phillips #1 x 3", #2 x 4"
Screwdriver, stubby 2-in-1
Socket set, 1/4" drive, 14 pc.,
3/16-1/2"
Soldering iron*
Tape measure, 12'/3.5m
Wrench, adjustable, 6"
Tool Bag

*1 Year Warranty

Part No.	Description	Dimensions (L x W x D)	Weight (lbs.)	Pallet Style	Kit Price	Case only	
						Part No.	Each
JTK-31	Multi-Purpose Kit-in-a-bag	11 x 6 x 6"	7-3/4	Fixed	\$215.00	392-306	\$19.95
216-603	Optional Shoulder Strap	-	-	-	\$3.00	-	-

Lifetime Guarantee

on all Jensen brand
hand tools



JTK® -81

Roll Pouch Kit

- Compact & lightweight...only 5 pounds
- Top quality tools & heavy-duty pouch w/Velcro® closure

All JTK-81 Tools are backed by
Jensen's Lifetime Guarantee

33 tools in all:

Extension blade, 4"
Handle, 4-1/8"
Hex key, fold-up, 9 pc.,
5/64-1/4"
Knife, electrician's
Nutdriver blades (5):
3/16-7/16"
Pliers (4): diag. cutter, 5"; long
nose, 6-1/2"; locking, 5",
groove joint 7"

Screwdriver blades (4): slotted:
3/16 and 1/4"; Phillips:
#1 and #2
Screwdriver, pocket (2), slotted:
3/32 x 3"; Phillips: #0 x 3"
Socket set, 1/4" drive, 13 pc.
Torx fold up, 7 pc., T6 -T20
Wire stripper/cutter
Wrench, adjustable, 6"
Roll pouch

Part No.	Description	Weight (lbs.)	Kit Price	Case only	
				Part No.	Each
JTK-81	Roll Pouch Kit	5	\$155.00	216-003	\$18.00



JTK®-6C

Compact Kit

Ideal for engineers, scientists, technicians, students, executives – anyone who might be required to dismantle or service electronic equipment. Deluxe padded zipper case in blue Cordura® Plus nylon.

The JTK-6 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

30 tools in all:

Alignment tool
Burnisher
Files, flexible, (2)
Hex key set, 10 pc.
Knife, light-duty
Pliers (2) diagonal cutter, 4-1/4";
long nose, 4-3/4"
Rule, stainless, 6"

Scissors, thin line
Screwdriver blades (5) Phillips #0, #1, #2;
slotted, 3/16, 1/4"
Screwdriver blade handle, 4-1/8"
Screwdrivers, slotted, miniature (2)
Solder aid fork and hook
Soldering iron
Wire stripper/cutter
Wrench, adjustable, 4"
Zipper case

Part No.	Description	Case Style	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style	Kit Price	Case only	
							Part No.	Each
JTK-6C	Compact Kit	Blue Cordura	7 x 9 x 2"	3	Fixed	\$125.00	54-955	\$30.00
JTM-67	Optional Jensen Pen DMM	—	—	—	—	\$37.00	—	—

Lifetime Warranty

on all Jensen brand hand tools

JTK®-3300

"Briefcase" Kit

Designed to be small enough to fit in a briefcase or luggage, but performs the functions of a much larger kit. Soft padded **black leather case** creates an elegant package for these top quality tools.

All JTK-3300 Tools are backed by Jensen's Lifetime Guarantee

34 tools in all:

Handle, 4-1/8"
Hex keys, fold-up, 9 pc. .050-3/16"
Nutdriver blades, (2) 3/16", 1/4"
Pliers, (3) diagonal cutter, 4-1/4"; mini
long nose, 4-3/4"; groove joint 5"
Penlight w/batteries

Screwdriver blades (4) Phillips #0, #1,
slotted 1/8", 3/16"
Screwdriver set, jeweler's
Phillips/slotted, 7 pc.
Torx fold-up 7 pc., T6-T20
Zipper case

Part No.	Description	Case Style	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style	Kit Price	Case only	
							Part No.	Each
JTK-3300	"Briefcase" Kit	Black Leather	6 x 7 x 1-1/4"	3	Fixed	\$110.00	216-033	\$30.00



Shown with
Optional Jensen
Pen DMM





JTK®-93

Electro-Mechanical Service Kit

- Over 135 top quality tools



JTK-93

Metric "Add-On" Kit

- Convert your kit to inch/metric, or use as a "stand-alone"
- Cordura® Plus tri-fold case with Velcro® closure



All CK-93MM Tools are backed by Jensen's Lifetime Guarantee

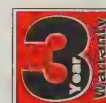
44 tools in all:

Hex blades (7) 1.27mm-5mm
Handle, driver blade, 4-1/8"
Handle, T-style
Handle, ratchet 1/4" drive
Nutdriver blades (9): 4mm-10mm

Pin punches (3): 1, 2, 3mm
Sockets 1/4" drive (9): 4mm-12mm
Wrenches, ignition (8): 4.5mm-9mm
Wrenches, open-end (5): 10mm-19mm
Case, Cordura®

JTK-93

JTK-93XRRT



on all Jensen Polyethylene cases (see page 3)

Telescoping handle stores in molded-in recess and extends to 41" Available with JTK-93WW and JTK-93LW.



JTK-93WW Shown

JTK-93LW features an extra wide case. Equipped with 2 spring loaded handles, padlock hasp and recessed 1/4 turn drawbolt style latches for extra durability.

JTK-93LW

The JTK-93 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 135 tools in all:

Alignment tools (2)
Brush, steel, 8"
Burnishers (3)
Caliper, dial
Cold chisel set, 3 pc.
Feeler Gauge .0015-.025"
File handle
File set, 3 pc.
Fuse puller
Hacksaw
Hacksaw blades (2)
Hammer, ball peen, 12 oz.
Handle, driver blades (2): 3-1/8, 4-1/8"
Hexdriver blades (9): .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16"

Hex key set, metric 1.5-6mm, 7 pc.
Hex key set, 9 pc. foldup, 5/64-1/4"
Icepick scribe
Knife, electrician's
Level, torpedo, magnetic, 9"
Mirror, inspection
Nutdriver blades (9): 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2"
Oiler, leakproof
Penlight w/batteries
Pliers (6): Diagonal cutter, 4-1/4"; diagonal cutter, 5-1/4"; groove joint, 10"; long nose, 4-3/4"; long nose with cutter, 6-3/4"; retaining ring internal/external
Pliers, lineman's heavy-duty
Pliers, locking, 7"

Punch, center, 3/32"
Punch, pin (2): 1/16, 1/8"
Reamer, handled, 7-1/2"
Rule, stainless, 6"
Safety goggles
Screwdriver, offset ratchet, slotted/Phillips
Screwdriver, Phillips #0 x 3", pocket clip
Screwdriver, Phillips (3): #1 x 3"; #2 stubby; #2 x 4"
Screwdriver, slotted 3/32 x 3", pocket clip
Screwdriver, slotted (6): 1/8 x 4"; 1/8 x 8"; 3/16 x 3"; 1/4" stubby; 1/4 x 4"; 5/16 x 6"
Screwdriver set, jeweler's, 7 pc.
Screwstarter, Phillips/slotted
Socket set, 1/4" drive, 14 pc.

Solder aid, fork and brush
Soldering iron, 115V (230V opt.)
Spring tool, pull
Spring tool, push
Tape measure, 12'/3.5m
Tapping tool, 3-in-1
Tweezers, reverse action
Wire crimper/stripper
Wire stripper/cutter
Wrench, adjustable (2): 4", 8"
Wrench set, combination, 10 pc. 5/16-7/8"
Wrench set, ignition, 8 pc.
Tool case with pallets

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Price
JTK-93	Inch Electro-Mech. Service Kit	Heavy-Duty Poly	-	17-3/4 x 14-1/2 x 7-1/2"	35	Side	\$760.00	356-950	\$205.00
JTK-93XRRT	Inch Electro-Mech. Service Kit	X-Tra Rugged Rota-Tough™	7	17-3/4 x 14-1/2 x 10"	33	Side	\$790.00	377-093	\$235.00
JTK-93WW	Inch Electro-Mech. Service Kit	Roto-Rugged™ Wheeled	10	17-3/4 x 14-1/2 x 12"	40	Side	\$900.00	377-393	\$350.00
JTK-93LW	Inch Electro-Mech. Service Kit	Roto-Rugged™ Wheeled	10	24-7/8 x 14-1/2 x 12"	45	Individual	\$945.00	377-394	\$390.00
JTK-93MM*	Metric Electro-Mech. Service Kit	X-Tra Rugged Rota-Tough™	7	17-3/4 x 14-1/2 x 10"	34	Side	\$815.00	377-093	\$235.00
CK-93MM	Metric Add-On Kit	Tri-Fold	-	10-1/2 x 7-1/2 x 1-1/2"	4	-	\$170.00	216-930	\$20.00

* Inch measurement tools have been replaced with their metric equivalent.



JTK®-97

Deluxe Electro-Mechanical Tool Kit

- Service all your electrical and mechanical equipment
- Choose from three case styles

With over 150 tools, the JTK-97 allows you to perform a variety of jobs including field service and plant maintenance. Included are a great selection of fixed-handle drivers; 11 screwdrivers, 9 nut drivers and 4 Tamper-Proof Torx drivers. This kit also contains more "mechanical tools" than our other Electro-Mechanical kits, like Lineman's pliers, high-leverage cable cutters and a 23 piece socket set.

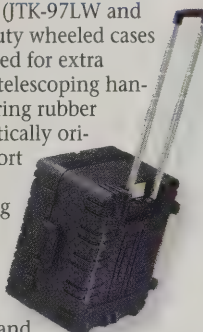
Metric add-on kit lets you service foreign equipment. Fits neatly in the bottom of the case.

Case Styles

Roto-Rugged™ (JTK-97LW and JTK-97WW) heavy-duty wheeled cases are rotationally molded for extra strength and feature telescoping handle and four ball-bearing rubber wheels. Cases are vertically oriented for easy transport through tight spaces. JTK-97LW is very long (almost 25") and features heavy-duty recessed 1/4-turn twist latches, spring-loaded steel handles and

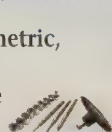
padlock hasp (does not include combination lock). JTK-97WW features key locking latches and combination lock, length is 17-3/4". Both cases have plenty of room for "extras".

Rugged Duty Poly (JTK-97R) military style case is vacuum-formed with 1/4-turn twist latches, spring-loaded steel handle and combination lock. Corner bumpers provide protection for the case hardware.



Metric "Add-On" Kit

- Convert your kit to inch/metric, or use as a "stand-alone"
- Cordura® Plus tri-fold case with Velcro® closure



All metric tools are backed by Jensen's Lifetime Guarantee

44 tools in all:	Handle, T-style	Pin punches (3):	4.5mm-9mm
Hex blades (7)	Handle, ratchet	1, 2, 3mm	Wrenches, open-end
1.27mm-5mm	1/4" drive	Sockets 1/4" drive (9):	(5): 10mm-19mm
Handle, driver	Nutdriver blades (9):	4mm-12mm	Case, Cordura®
blade, 4-1/8"	4mm-10mm	Wrenches, ignition (8):	



All JTK-97 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 150 tools in all:	Flashlight, Mini-Maglite	Pliers, groove joint 10"	Screwdriver, Phillips #0 x 3"	Screwdriver, slotted 5/16 x 6"	Tapping tool, 3-in-1
Alignment tools (2)	Hacksaw	Pliers, lineman's heavy-duty 9"	pocket clip	Screw starter, double-end	Terminal kit, solderless
Brunisher files (3)	Hacksaw blades (2)	Pliers, locking 7"	Screwdriver, Phillips #1 x 3"	slotted/Phillips	Torx drivers (4) TT8, TT10,
Brush, steel 8"	Hammer, ball peen, 12 oz.	Pliers, retaining ring,	Screwdriver, Phillips #2 stubby	Scribe/awl 8"	TT15, TT20
Cable cutter, high-leverage,	Hex key set, ball-end	internal/external	Screwdriver, Phillips #2 x 4"	Socket set, 23 pc.	Tweezers, self-closing
9-1/2"	13 pc. .050-3/8"	Punches (3): center 3/32",	Screwdriver, Phillips #3 x 6"	1/4" & 3/8" drive	Utility Knife
Cable ties, 100 pk.	Inspection mirror/pick-up tool	pin 1/16", pin 1/8"	Screwdriver, slotted 1/4 x 1"	Solder aid, fork and brush	Wire crimper/stripper
Cold chisel set, 3 pc.	Level, torpedo magnetic	Reamer 1/8-3/8"	stubby	Solder, pocket pack	Wire stripper/cutter
Electrical tape, black	Nut driver Set, 9 pc. 3/16-1/2"	Receptacle tester, GFI	Screwdriver, slotted 1/4 x 4"	Soldering iron, 115V (230V opt.)	Wrench adjustable (2): 4", 8"
Feeler gauge 11 blades	Oiler, leak-proof	Rule, stainless 6"	Screwdriver, slotted 3/16 x 3"	Spline key set, 10 pc.	Wrench set, combination,
File handle	Pliers, chain nose	Safety glasses	Screwdriver, slotted 3/32"	Spring tool, pull	10 pc. 5/16-7/8"
File set, 3 pc.	w/ cutter 6-1/2"	Scissors, electrician's	pocket clip	Spring tool, push	Wrench set, ignition 8 pc.
	Pliers, diagonal cutter 5-1/4"	Screwdriver set, jeweler's 7 pc.	Screwdriver, slotted 3/8 x 8"	Tape measure 12' / 3.5M	

Part No.	Description	Case Style (Ref Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Price
JTK-97LW	Deluxe Electro-Mechanical Kit	Roto-Rugged™ Wheeled	10	24-7/8 x 14-1/2 x 12"	50	Individual	\$1,005.00	423-763	\$404.00
JTK-97WW	Deluxe Electro-Mechanical Kit	Roto-Rugged™ Wheeled	10	17-3/4 x 14-1/2 x 12"	43	Side Hinge	\$955.00	423-766	\$354.00
JTK-97R	Deluxe Electro-Mechanical Kit	Rugged Duty Poly	9	17-3/4 x 14-1/2 x 9"	41	Side Hinge	\$820.00	423-767	\$214.00
CK-93MM	Metric Add-On Kit	Tri-Fold	—	10-1/2 x 7-1/2 x 1-1/2"	4	—	\$170.00	216-930	\$20.00



JTK®-91

Electro-Mechanical Installer's Kit

- One of our most popular kits for electrical/mechanical tasks
- Storage space for extra equipment
- Choice of three case styles



JTK-91DST

JTK-91R and
JTK-91MM



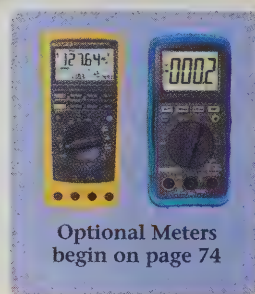
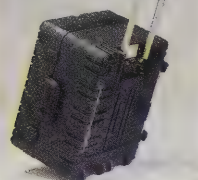
JTK-91R



on all Jensen
Polyethylene
cases (see page 3)



Telescoping handle
stores in
molded-in
recess extends
to 41"
JTK-91WW



Optional Meters
begin on page 74

The JTK-91 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 95 tools in all:

Brush, brass, cleaning
Flashlight, with continuity tester
Files, 6" (3): flat; half round; rat tail
Hacksaw, junior 8-1/2"
Hammer, ball peen, 8 oz.
Hammer, soft face, 8 oz.
Handle, file
Hemostat, straight, 6"
Hex key set, ball-end, 12 pc.
Knife, electrician's
Mirror/magnet tool
Oiler, leakproof
Parts box

Pliers (7): diagonal cutter, 4-1/4"; diagonal cutter, 5-1/4"; groove-joint, 10"; long nose, mini, 4-3/4"; long nose, with cutter, 6-3/4"; retaining ring, combination; slip-joint, 6".

Pliers, locking 7"

Punch, center
Punch pins (2): 1/16" and 3/32"
Retrieval tool, flexible claw

Rule, stainless steel, 6"

Screwdriver, ratchet offset, slotted/Phillips

Screwdriver, Phillips (4): #0 x 3"; #1 x 3";

#1 x 6"; #2 x 4" **Screwdriver, slotted (5):**
3/32" x 3"; 3/16" x 8"; 1/4" x 4";
5/16" x 6"; 1/8" x 8"

Screwdriver, stubby, 2-in-1

Screwdriver set, jeweler's, 7 pc.
Screwstarter, double-end slotted/Phillips
Scribe, 3 point set
Snips, utility
Socket set, 3/8" drive, 23 pc.
Solder, pocket pack
Soldering aid, fork and reamer
Soldering iron
Tape measure, 12'/3.5m
Wire crimper/stripper
Wire cutter/stripper
Wrench, adjustable 8"
Wrench set, combination (9): 3/8-7/8"
Tool case with pallets

JTK-91MM contains these metric equivalent tools:

Hex key set, 9 pc; 1.5 - 10mm
Punches, pin; 2mm, 3mm
Socket set; 24 pc.
Wire crimper/stripper
Wrench set; (6); 8 - 19mm
Wrench set; (3); 3/4" - 7/8"

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-91DST	Inch Electro-Mech. Installer's Kit	Super-Tough™	8	17-3/4 x 14-1/2 x 9-1/4"	29	Side	\$610.00	377-391	\$165.00
JTK-91R	Inch Electro-Mech. Installer's Kit	X-tra Rugged Rota-Tough™	7	17-3/4 x 14-1/2 x 10"	31	Side	\$655.00	377-910	\$210.00
JTK-91WW	Inch Electro-Mech. Installer's Kit	Roto-Rugged™ Wheeled	10	17-3/4 x 14-1/2 x 12"	37	Side	\$770.00	377-911	\$320.00
JTK-91MM	Metric Electro-Mech. Installer's Kit	X-tra Rugged Rota-Tough™	7	17-3/4 x 14-1/2 x 10"	33	Side	\$690.00	377-910	\$210.00



JTK®-88

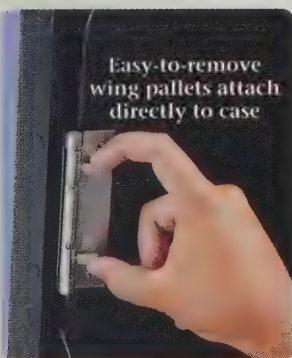
Inch/Metric Electro-Mechanical Kit

- Over 135 top quality tools, including 42 metric
- Metric tools on removable wing pallets allow technician to carry them only when needed

The ultimate in versatility. An inch/metric tool variety for servicing foreign and domestic equipment; Wing pallets hold metric tools, and are quickly detached at the hinge, eliminating 5 lbs.



JTK-88



Easy-to-remove
wing pallets attach
directly to case



JTK-88S

JTK-88



on all Jensen
Polyethylene
cases (see page 3)



on all Jensen brand
hand tools



The JTK-88 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 135 tools in all:

Balldriver set, inch (13): .050-3/8"
Balldriver set, metric (9):
1.5mm-10mm
Brush, steel scratch
Extension, driver blade, 4"
Handle, 4-1/2"
Knife, light-duty
Knife blades, #11

Mirror/magnet tool
Nutdriver blade set (9): 3/16-1/2"
Nutdriver blade set (10): 4-11mm
Pliers (6): chain nose with cutter,
6-1/2"; chain nose, mini, 4-3/4";
diagonal cutters, mini, 4";
groove joint, 10"; locking, 5";
slip joint, 6"
Scissors, electrician's

Screwdrivers, Phillips (4): #0 x 3"
pocket clip; #1 x 6"; #2 x 4";
#2 x 1-1/4" stubby
Screwdrivers, slotted (6): 1/8 x 3"
pocket clip; 1/8 x 4"; 3/16 x 3";
3/16 x 8"; 1/4 x 1-1/4"
stubby; 1/4 x 4"
Screwdriver, Phillips/slotted
ratcheting offset

Screw starter, double-ended
Socket set, 1/4" drive, (14):
3/16-1/2"
Socket set, 1/4" drive (9): 4-12mm
Soldering iron, 25W
Solder, pocket pack
Spline key set, 10 pc.
Stripper, 16-26 AWG
Stripper/cutter/crimper

Tape measure, inch/metric
Torxdrivers (4): TT8; TT10;
TT15; TT20
Wrench, adjustable, 6"
Wrench set OE (13): 13/64-7/8"
Wrench set OE (13): 4-19mm
Tool case with pallets

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Price
JTK-88	Inch/MM Electro-Mechanical Kit	Deluxe Poly	3	17-3/4 x 12-3/4 x 6"	27	Wing	\$660.00	191-133	\$240.00
JTK-88S	Inch/MM Electro-Mechanical Kit	Super Tough	8	17-3/4 x 14-1/2 x 9"	28	Wing	\$670.00	191-155	\$250.00



JTK-23C



JTK-23C

New



JTK-23BLK

JTK®-23C

Multi-Fastener Tool Kit

- Contains over 80 of the most requested fastening tools
- Ideal for electro-mechanical tasks

Provides the essential tools required for most fasteners in use today. Rugged Cordura® Plus case has room for all tools plus extra storage in the three external pockets: one pocket measures 12" x 10" x 2" and two measure 6" x 10" x 2". D-ring attached for optional shoulder strap.

Master Lock.



Secure Your Kit



TSA air travel approved

Part No.	Description	Price
425-137	Combination Lock	\$10.30

All JTK-23 Tools are backed by Jensen's Lifetime Guarantee

Over 80 tools in all:

Extension blade, 4"
Handles, 4-1/8", "T"
Hex key set, BP, 11 pc.
Hexdriver blades, 9 pc., .050-3/16"
Nutdriver blades, 9 pc., 3/16"-1/2"

Pliers, (4) Long nose with cutter, 6-3/4";
diagonal cutter, 5"; locking, 5"; slip joint, 6"
Penlight w/batteries
Rule SS, 6"/15cm
Screwdriver, offset, ratchet
Screwdriver blades (3), #0, #1, #2

Screwdriver blades (3), 1/8", 3/16", 1/4"
Screwdriver, pocket, 3/32" x 3"
Screwdriver, pocket, #0 x 3"
Socket set, 3/16"-1/2" 14 pc.
Tape measure, 12'/3.5m
Torx blades (3), T8, T10, T15

Torx fold-up, T6-T20 7 pc.
Wrench, adjustable (2), 6" and 8"
Wrench set, ignition, 13/64"-3/8" 8 pc.
Wire crimper/stripper
Zipper Case

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
JTK-23C	Multi-Fastener Tool Kit	Single Blue Cordura	13	13-1/2" x 10" x 2-1/2"	9	Fixed	\$310.00	216-023	\$75.00
JTK-23BLK	Multi-Fastener Tool Kit	Black Cordura	13	13-1/2" x 10" x 2-1/2"	9	Fixed	\$310.00	216-023BLK	\$75.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-

Lifetime Guarantee

on all Jensen Brand hand tools



Shown with optional equipment



See additional insulated tools on page 280

JTK®-67C

3-Sided Electrical Control Engineer's Kit

- Over 100 insulated and non-insulated tools

Provides an essential tool selection with room for optional test and diagnostic equipment in a single case. Two 18" x 12" x 2-1/4" outer compartments house tools and optional test equipment while the 18" x 12" x 4" center compartment has a padded pocket for a laptop or notebook computer and space for manuals, paperwork and diskettes. Case features web strap handles plus a shoulder strap.

The JTK-67 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 100 tools in all:

Bit set, 1/4" hex, 39 pc.
File, needle, 4 pc.
Hacksaw, mini
Hammer, ball peen 4 oz.
Handle, magnetic
Handle, 4-1/8"
Hex key set, ball end, .050-5/16" 12 pc.
Knife, snap blade

Magnifier 2X/4X with light
Mirror, telescoping with magnet
Mini-maglite, AA
Nutdriver blades, 3/16"-1/2" 9 pc.
Parts boxes (4)
Pliers, insulated (2), long nose with cutter, 8";
diagonal cutter, 7"
Pliers, non-insulated, (3): diagonal cutter, 4-1/4"; long nose, 4-3/4"; groove joint, 4"

Punch, center, automatic
Rule, SS, 6"/15cm
Scissors, electrician's
Screwdrivers, insulated, Phillips: (8),
#0 x 2-1/4", #1 x 3", #2 x 4", slotted:
1/8" x 3", 5/32" x 4", 3/16" x 5", 1/4" x 6",
1/8" x 3" pocket volt tester
Screwdriver set, mini, 6 pc.
Screwstarter, slot/Phillips

Solder removal braid
Soldering iron
Tape measure, 12'/3.5m
Wire stripper, 16-26 AWG
Wrench, adjustable, 6"
Wrist strap, anti-static
Zipper case

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
JTK-67C	Electrical Control Engineer's Kit	Triple Blue Cordura	-	17" x 11" x 8"	20	Fixed	\$690.00	54-067	\$185.00



INDUSTRIAL MECHANICAL KITS

JTK®-94

Deluxe Industrial Kit with PROTO® and Stanley® Tools

- Over 90 tools with lifetime warranty ...
if a tool fails, we replace it

JTK-94 features a robust set of "larger tools". Ideal for servicing remote sites or mechanical work. Because of the high weight factor of this kit - 54 pounds - a Roto-Rugged™ heavy-duty wheeled case is used. This case features a rotationally molded polyethylene shell, four ball-bearing recessed rubber wheels, locking telescopes handle that extends to 41" and steel curb/stair skids on bottom. This is one heavy-duty tool kit!

All tools in the JTK-94 are backed by Manufacturer's Lifetime Warranty

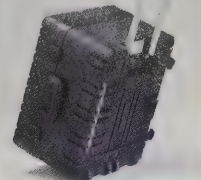
Over 90 tools in all:

Pliers (4): Diagonal cutter, 7"; groove joint, 10"; long nose with cutter, 6"; slip joint, 8"
Hex key set, fold-up (8): 3/32-1/4"
Socket set, 3/8" drive (23): 3/8-7/8" regular and deep sockets, 3/8" drive ratchet, 3" and 6" extensions, 3/8" U-Joint, metal box
Socket set, 1/2" drive (20): 3/8" to 1-1/4" regular sockets; 1/2" drive

ratchet; 5" and 10" extensions; 1/2" U-Joint; 1/2" drive hinge handle
Screwdrivers, rubber grip (9): Phillips #1 x 3, #2 x 4, #3 x 6, #2 x 1-1/2"; slotted 3/8 x 8, 5/16 x 6, 1/4 x 4, 3/16 x 3, 1/4 x 1-1/2"
Torx key set, fold up (9): T9-T40
Wrench adjustable (3): 6", 8", 10"
Wrench combination (15): 5/16-1-1/4"
Tool case with pallets



Telescoping handle stores in molded-in recess extends to 41"



Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Each
JTK-94WW	Deluxe Industrial Kit	Roto Rugged "Tote"	10	17-3/4 x 14-1/2 x 10"	54	Side	\$940.00	377-494	\$355.00
JTK-94WD	Deluxe Industrial Kit	Roto Rugged "Tote"	10*	17-3/4 x 14-1/2 x 12"	54	Side	\$945.00	419-645	\$360.00

* Not pictured, case features heavy-duty 1/4 turn latches, spring loaded handles and padlock hasp. Does not include combination lock.

Lifetime Warranty

on all Jensen brand hand tools

JTK®-96

Industrial Tool Kit

- Over 145 tools: the right tool for every job

Robust selection of tools for almost every situation. Contains mostly inch measurement tools. Socket set and tape measure are inch and metric.

The JTK-96 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

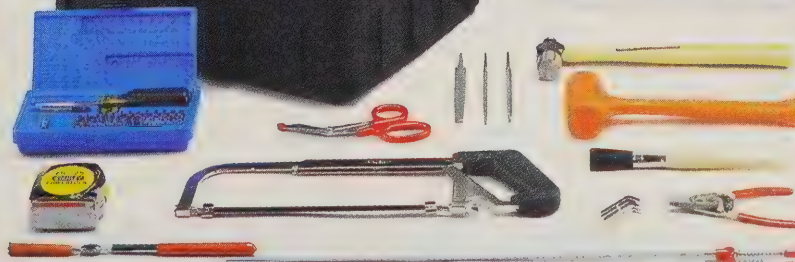
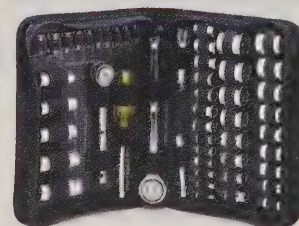
Over 145 tools in all:

Brush, cleaning
Brush, scratch
File set, 3 pc.
Fuse puller
Hacksaw with blade
Hammer, ball peen, 12 oz.
Hammer, dead blow, 18 oz.
Handle, file
Hex key set, 13 pc. .050-3/8"
Level, torpedo, magnetic, 9"
Magnetic pick-up tool, 15"
Mechanical finger, 24"
Pliers, (4): Diagonal cutter, 6"; long nose, 6 3/4"; groove joint, 7"; groove joint, 10"
Pliers, linesman, 9"
Pliers, locking, 7"
Pliers, internal/external retaining ring with tips
Reamer, hand

Rule, SS, 6"/15cm
Scribe/awl
Screwdriver set, 8 pc. Phillips
#1 x 3"; #2 x 4"; #2 x 1-1/2"; slotted 1/4" x 1-1/2"; 1/4" x 4"; 5/16" x 6"; 3/16" x 6"; 3/8" x 8"
Screwdriver bit set, 30 pc. with handle/adapters
Snips, utility
Socket set, 50 pc. inch/mm, 1/4", 3/8" drive
Tape measure, 25'/7.5m
Tapping tool, 6-in-1
Torx key fold-up, 8 pc.
Wrench, adjustable (2): 6" and 10"
Wrench set, combination 10 pc. 5/16"-7/8"
Tool case with pallets



on all Jensen Polyethylene cases (see page 3)



Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Each
JTK-96	Industrial Tool Kit	X-tra Rugged Rota-Tough	7	17-3/4 x 14-1/2 x 10"	47	Side	\$760.00	377-960	\$215.00

BIO-MEDICAL KITS



JTK®-75

Bio-Medical Technician's Kits

■ Inch or inch/metric kits

The JTK-75 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 120 tools in all:

Alignment tools, (2)
Awl/scribe
Burnishers, (3)
Files (2): flat; rat tail, 6"
File handle
File kit, 5-1/2", 8 pc.
Gauge, feeler
Hammer, ball peen 4 oz.
Handle, driver blades, (2):
Regular; T-style
Hemostats, straight*
(2): 5", 6"
Hex driver blades
(9): .050-3/16"
Hex key sets
(2): inch; metric
Knife, electrician's
Mirror, inspection
Nutdriver blades (9):
3/16"-1/2"
Oiler
Penlight w/batteries

Pliers (5): *diag. cutter, 4-1/4";*
diag. cutter, 5-1/4"; groove joint,
10"; long nose, 4-3/4"; long nose
with cutter, 6-3/4"
Pliers: *retaining ring,*
internal/external
Pliers, locking, 5"
Punch, center, 3/32"
Punch, pin, 1/16"
Rule, stainless, 6"
Screwdrivers (12): *offset ratchet,*
slotted/Phillips; Phillips #0 x 3",
pocket clip; Phillips #1 x 3";
Phillips #2, stubby; Phillips
#2 x 4"; slotted, 3/32" x 3"
pocket clip; slotted, 1/8" x 4";
slotted, 1/8" x 8"; slotted,
3/16" x 3"; slotted, 1/4",
stubby; slotted, 1/4" x 4";
slotted, 5/16" x 6"
Screwdriver set,
jeweler's, 7 pc.
Screwstarter, Phillips/slotted

Scissors
Socket set, 1/4"
drive, 14 pc.
Solder aid, fork and brush
Soldering iron
Spring hooks
(2): pull; push
Tester, outlet
Tweezers, reverse action
Wire crimper/stripper
Wire stripper/cutter,
16-26 AWG
Wrenches, adjustable
(2): 4", 8"
Wrench set, ignition, 8 pc.
Tool case with pallets

JTK-75WIM also includes:
Hex driver blades (7): 1.27 - 5mm
Nut driver blades (12): 3 - 11mm
Punch (2), pin; 1mm, 3mm
Socket set (9): 4 - 12mm
Wrench set, open end (8): 4 - 9mm

JTK-75WIM

JTK-75RL



JTK-75WIM

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Each
JTK-75RL	Inch Bio-Medical Technician's Kit	Monaco	1	17-3/4" x 12-3/4" x 7"	23	Individual	\$620.00	377-856	\$180.00
JTK-75WIM	Inch/MM Bio-Medical Tech's Kit	Super Tough	8	17-3/4" x 14-1/2" x 9-1/4"	25	Side	\$745.00	377-964	\$220.00

JTK®-7500

Medical Equipment Tool Kits

■ Inch or inch/metric kits designed for Bio-medical Technicians

JTK-7500 is a basic kit in a single-sided Cordura® Plus case with two removable pallets (#9 and #10). There are three outside flapped pockets for extra storage. One pocket measures 15" x 11" x 2" and two pockets measure 7-1/2" x 11" x 2".

JTK-7500DBL is a double-sided case which contains the same tools as the JTK-7500 plus a third pallet filled with metric tools (#11) and a portfolio pallet (#8). The double-sided case has two individual tool compartments and also features three outside pockets. D-ring attached for optional shoulder strap. There are three outside flapped pockets for extra storage. One pocket measures 15" x 11" x 2" and two pockets measure 7-1/2" x 11" x 2".

The JTK-7500 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

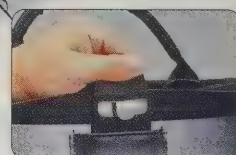
Over 90 tools in all:

File, needle (3)
Handle, 4-1/8"
Hemostat, 5"
Hex key set, ball end (8):
.050-5/32"
Knife, mini-utility
Mini-maglite
Mirror/magnetic retriever
Nutdriver blades (7):
3/16"-7/16"
Pliers (4): *diag. cutter,*
5-1/4"; groove joint, 7";
diag. cutter, 4-1/4";
needle nose, 6-1/2"
Receptacle tester
Rule, stainless steel, 6"

Scissors, electrician's
Screwdriver set, jeweler's,
7 pc. slotted/Phillips
Screwdriver, Phillips/slotted
(2): *offset ratchet;*
stubby, 2-in-1
Screwdrivers, Phillips (3):
#0 x 3"; #1 x 6"; #2 x 4"
Screwdriver, slotted, (3):
3/32" x 3"; 3/16" x 6";
1/4" x 4"
Screwstarters (2): .102 x 6";
9/64" x 6"
Scribe, machinist's, 3 points
Soldering iron
Spring tool, combination
push/pull

Tape measure, 10'/3m
Trippot tool
Tweezers, boley style
Wire stripper, 16-26 AWG
Wrench, adjustable, 6"
Wrench set, inch (7):
13/64"-3/8"
Zipper tool case

JTK-7500DBL also includes:
Handle, 3-1/8"
Hex key set, metric (6):
1.5-5mm
Nutdriver blades (8): 4-9mm
Screwdriver set, jeweler's,
4 pc. metric
Wrench set (8): 4-9mm



QC Clip design makes pallet removal fast and easy

JTK-7500

JTK-7500DBL

See pages 49-51 for additional tool and case options



Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Each
JTK-7500	Inch Medical Equipment Kit	Single Gray Cordura	13	15-1/4" x 10-3/4" x 3"	12	Quick Change	\$355.00	216-700	\$91.80
JTK-7500DBL	Inch/MM Medical Equipment Kit	Double Gray Cordura	14	15-1/4" x 10-3/4" x 6"	17	Quick Change	\$475.00	216-701	\$165.00
216-432	Optional Black Shoulder Strap*	-	-	-	-	-	\$10.00	-	-

*For JTK-7500 series kits



JTK®-78

Deluxe Medical Tool Kit

- Jensen's most versatile Medical kit
- Contains inch and metric tools
- Choose from four case styles

The JTK-78 is Jensen's most versatile tool kit for the installation and maintenance of medical equipment. Perfect for servicing all your Bio-Med, laser and medical imaging equipment. Includes the most frequently used inch and metric tools, see tool list below. All four case styles have room for optional test equipment.

JTK-78WR



Roto-Rugged™ wheeled



Horizontal Tough "Tote"



Super Tough

Case Styles

Roto-Rugged™ (JTK-78WR and JTK-78WW) heavy-duty wheeled case is rotationally molded for extra strength and features telescoping handle and four ball-bearing rubber wheels for easy transport. Case is vertically oriented for easy transport through tight spaces. JTK-78WR features key locking latches and combination lock. JTK-78WW (not pictured) features heavy-duty 1/4 turn latches, spring-loaded handle and padlock hasp (does not include combination lock).

Horizontal Tough "Tote" (JTK-78TTD) is a medium-duty case that also features a telescoping handle and two ball-bearing rubber wheels for easy transport. Horizontal orientation helps keep tools in place. Key locking latches and padlock hasp.

Super Tough (JTK-78ST) case is vacuum formed with key locking latches and combination lock.

Suggested Optional Equipment

Part No.	Description	Shown on Page	Price
JTM-69A	True RMS Multimeter	118	\$69.00
420-659	Electrical Safety Analyzer	107	\$935.00
412-517	Dual Input Thermometer	140	\$219.00
127-157	Field-Service Grounding Kit	348	\$44.55



See Page 107
for DALE Test Equipment

All JTK-78 Tools in **boldface italic** are backed by Jensen's Lifetime Guarantee

Over 160 tools in all:

Alignment tools (2)

Burnisher files (3)

Conversion chart, metric

Electrical tape, black

Extension, driver blade, 7"

Feeler gauge

File set (6)

Flashlight, Mini-Maglite

Hammer, ball peen, 4 oz.

Handle, driver blades (3):

3-1/8, 4-1/8" and "tee"

Hemostat, straight, 6"

Hex key set (7): 2-8mm

Hex key set (10): .028-5/32"

Hexdriver blades (9): .050-3/16"

Hexdriver blades (7): 1.27-5mm

Knife, electrician's

Mirror, inspection

Nutdriver blades (9): 3/16, 7/32,

1/4, 9/32, 5/16, 11/32, 3/8,

7/16, 1/2"

Nutdriver blades (10): 4, 4.5, 5, 5.5,

6, 7, 8, 9, 10, 11mm

Oiler, leakproof, 2 oz.

Pickup tool, magnetic telescoping 20"

Pliers (8): chain nose 4-7/8";

chain nose 6-1/2";

diagonal cutter, 4-3/8"; diagonal

cutter, 5-1/4"; groove joint, 10";

locking, 5"; retaining ring,

internal/external;

slip joint, 6-1/2"

Punches (3): center, 3/32; pin,

1/16; pin, 1/8"

Receptacle tester

Rule, stainless, 6"

Scissors, electrician's

Screwdriver, offset ratchet,

Phillips/slotted

Screwdriver, Phillips #0 x 3",

pocket clip

Screwdriver, Phillips (2):

#2 x 1-1/4; #2 x 4"

Screwdriver, Slotted 3/32 x 3"

pocket clip

Screwdriver, Slotted (7): 1/8 x 4";

1/8 x 6"; 3/16 x 3"; 3/16 x 6";

1/4 x 1-1/4"; 1/4 x 4"; 5/8 x 6"

Screwdriver set, jewelers (7)

Screwstarter, double-end

Scribe/awl, 8"

Socket set, 1/4" drive (24 pc.);

4-12mm; 3/16-1/2"

Solder aid, fork and hook

Solder, pocket pack

Soldering iron, 115V

Spring tool, pull

Spring tool, push

Tape measure, 12'/3.5m

Torx Driver, tamper-proof, mag-

netic (5): T7-T15

Tweezer, reverse-action

Wire crimper/stripper/cutter

Wire cutter/stripper

Wrench, adjustable (2): 4", 8"

Wrench set, Open-end (8): 13/64,

7/32, 15/64, 1/4, 9/32, 5/16,

11/32, 3/8"

Wrench set, Open-end (8):

4, 4.5, 5, 5.5, 6, 7, 8, 9mm

Part No.	Description	Case Style (Ref. Pg 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-78WR	Deluxe Medical Kit	Roto-Rugged™ Wheeled	10	17-3/4 x 14-1/2 x 12"	34	Side Hinge	\$830.00	419-626	\$355.00
JTK-78WW	Deluxe Medical Kit	Roto-Rugged™ Wheeled	10	17-3/4 x 14-1/2 x 12"	34	Side Hinge	\$830.00	419-648	\$355.00
JTK-78TTD	Deluxe Medical Kit	Horizontal Tough "Tote"	11	17-3/4 x 14-1/2 x 12"	32	Side Hinge	\$760.00	419-627	\$270.00
JTK-78ST	Deluxe Medical Kit	Super Tough	8	17-3/4 x 14-1/2 x 9-1/4"	28	Side Hinge	\$680.00	419-628	\$190.00



JTK®-53

Deluxe Communications Kit

- Jensen's most versatile communications kit
- Choose from three case styles

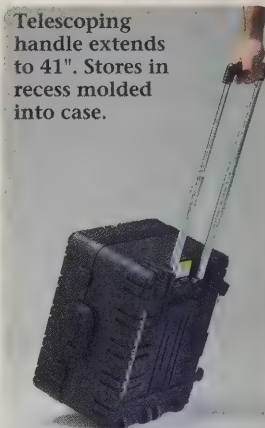
The JTK-53 is our most versatile tool kit for the installation and maintenance of communications equipment. Service all your voice and data equipment including phone switches and data networks. Features large clear parts pocket on back of pallet (not shown).



JTK-53WW



JTK-53ST



JTK-53WW & JTK-53WD

Telescoping handle extends to 41". Stores in recess molded into case.



on all Jensen Polyethylene cases (see page 3)



Termination kits begin on p. 230

Suggested Optional Equipment

Part No.	Description	Shown on Page	Price
JTM-69A	True RMS Multimeter	118	\$69.00
JTS-30	Test Set	200	\$194.95
600-360	RJ-11/RJ-45 Modular Crimp Tool	223	\$51.50
191-311	RJ Jack Identifier	155	\$33.60
412-286	PocketToner 2 Kit	190	\$89.95
759-053	Hand Wrapping Tool	235	\$54.05
759-043	Hand Unwrapping Tool	-	\$26.45

All JTK-53 Tools in **boldface italic** are backed by Jensen's Lifetime Guarantee

Over 110 Tools in all:

Burnisher, pocket
Cable cutter, data cable
Cable stripper, coax/twisted pr.
Drill 3/8" corded keyless
Drill bit set, 13 pc.
Electrical tape
Fish tape, 50" steel
Flashlight
Hammer, claw
Handle, driver blades (2): 3-1/8, 4-1/8"
Hexdriver blades (9): .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16"
Knife, electrician's
Mirror, inspection
Nutdriver blades (9): 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2"
Pick up tool, 4-prong
Pliers (7): long nose w/cutter, 6-1/2"; miniature long nose, 4-7/8"; diagonal cutter, 4-3/8"; diagonal cutter, 5-1/4"; groove joint, 10"; retaining ring, external/internal; lineman's, 9"
Probe pick
Punch, center 3/32"

Punch, pin (2): 1/16, 1/8"
Punch-down tool w/66 and 110 blades
Rule, stainless steel 6"
Safety glasses
Scissors, electrician's
Scribe, ice pick type 8"
Screwdriver, offset ratchet, Phillips/slotted
Screwdriver, Phillips (5): #0x3" pocket clip, #0x2", #1x3", #2x4", #2x1 1/2" stubby
Screwdriver, slotted (6): 1/8 x3" pocket clip, 1/8 x 8", 3/16 x 3", 5/16 x 6", 1/4 x 4", 1/4 x 1-1/2" stubby
Screwdriver set, jewelers, (7 pc.)
Socket set, 1/4" drive, (14 pc.)
Solder aid, fork and hook
Soldering iron, 115V
Solder pocket pack, 60/40
Staple gun 1/2" with staples
Tape measure 26'/8M
Tweezer, reverse-action 4"
Wire crimper/stripper
Wire stripper/cutter
Wrench, adjustable (2): 4", 8"
Wrench set, ignition (8 pc.)
Tool case with pallets

Part No.	Description	Case	Style	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
		Style (Ref. Pg. 4-5)	No.					Part No.	Each
JTK-53WW	Deluxe Communications Kit	Roto-Rugged™ Wheeled	10	17-3/4 x 14-1/2 x 10"	42	Side Hinge	\$1,025.00	377-495	\$320.00
JTK-53WD	Deluxe Communications Kit	Roto-Rugged™ Wheeled	10*	17-3/4 x 14-1/2 x 12"	42	Side Hinge	\$1,035.00	377-496	\$330.00
JTK-53ST	Deluxe Communications Kit	Super Tough	8	17-3/4 x 14-1/2 x 9-1/4"	32.5	Side Hinge	\$865.00	54-102	\$160.00

*Not pictured. Features heavy-duty 1/4 turn latches, spring-loaded handle and padlock hasp. Does not include combination lock.



JTK®-45

Deluxe Telecom Installer's Kit

- Install, configure, wire CPE
- Outside pockets hold equipment, documents

These quality tools meet the needs of technicians installing communication devices in the field. Access, prep wires, terminate and dress cabling. Case holds toner, line aid, transparent pockets to see consumables/small parts.

Durable Cordura case contains three outside pockets: 13 x 10-1/2 x 1-1/2", 5 x 2-1/4 x 12" and 5 x 2-1/4 x 10". Metal D-rings built into web-strap handles for optional shoulder strap.

The JTK-45 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 40 tools in all:

Cable cutter, 8"
Can wrench
Hemostat, straight, 6"
Hex key set, fold-up (9), .050-3/16"
Knife-driver, electrician's
Pliers (2): chain nose with cutter, 6"; diagonal cutter, 5"
Pliers (2), shear cutter, flush;
insulation skinner, 6"
Probe pic

Scissors, strip-jaw, electrician's
Screwdrivers (4): Phillips #1, #2; slotted 5/16 x 4"; cabinet slotted 3/16 x 6"
Screwdriver, Phillips, pocketclip, #0
Screwdriver, slotted, pocketclip, 1/8"
Screwstarter, double-ended,
Phillips/slotted
Socket set, 1/4" drive, 14 pc.
Wire stripper, stranded 16-26 AWG
Wrench, adjustable, 6"
Zipper Case



Shown with Optional Equipment. Telecom Test Equipment, Tools and Accessories Begin on Page 195.

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style	Kit Price	Case w/pallets only	
JTK-45	Deluxe Telecom Installer's Kit	Single Black Cordura	-	15 x 10-1/2 x 2"	9	Fixed	\$265.00	216-335	Each
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-

Lifetime Guarantee

on all Jensen brand hand tools



Termination kits begin on p. 230

JTK®-51

Master Telecom Installer's Kit

- Installer's certification program selected tools
- Install racks, blocks, panels, mounts and cable

Optional Enhancement Kit includes a cable cutter, Paladin three blade coaxial cable stripper, Jensen 110 punch down tool, tone generator, tone tracer and crimping frame with RJ-11, RJ-45, BNC 58, 59, 62, die sets and pallet. Pallet is also available without tools.

The JTK-51 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 50 tools in all:

Drill, push, with bits
File set, 3 pc.
Fish tape, 50' steel
Flashlight
Goggles
Hacksaw, heavy-duty
Hammer, straight claw
Handle, file
Icepick scribe
Knife driver
Nutdrivers (5): 1/4, 5/16, 3/8, 7/16, 1/2"
Pickup tool, 13-1/2"
Pliers (3): chain nose with cutter, 6"; diag. cutter, 5"; groove joint, 10"
Pliers, lineman's, 9-1/4"
Pliers, slip joint, 6"

Pliers, locking, 10"
Punch, center, 3/32"
Punches (2): pin, 1/16"; pin, 1/8"
Reamer, handled, 7-1/2"
Saw, 3 pc. with handle
Screwdrivers, Phillips (4): pocket; #2 stubby; #1 x 3"; #2 x 4"
Screwdrivers, slotted (6): pocket; 1/4" stubby; 3/16 x 6"; 1/4 x 4"; 5/16 x 6"; 3/8 x 8"
Screwstarter, double-ended
Tape measure, 25' x 1"
Tester, receptacle
Wire crimper/stripper
Wrenches, adjustable (2): 4", 8"
Wrench set, combination (8): 1/4 - 11/16"
Tool case with pallet



23-473 Enhancement Kit



on all Jensen Polyethylene cases (see page 3)

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
JTK-51	Master Telecom Installer's Kit	X-tra Rugged Rota-Tough™	7	17-3/4 x 14-1/2 x 10"	34	Side	\$600.00	377-051	Each
23-473	Enhancement Kit with Tools	-	-	-	5	-	\$360.00	-	-
23-472	Enhancement Pallet only	-	-	-	2	-	\$24.00	-	-



Shown with
Optional Test
Equipment



JTK®-44

Telecom Installer's Kit

- For telecom service technicians working in an office environment
- Plenty of room for optional test equipment

This compact zipper kit contains the basic service tools essential for equipment installation, troubleshooting and repair. Includes specialty items such as wire wrapping and unwrapping tools. Ample space is provided for optional service equipment as shown.

Available in brown and black Cordura® Plus nylon cases with web-strap handles and D-rings attached for optional shoulder strap. Large outside pocket measures 12 x 10 x 2" and two smaller pockets are 6 x 10 x 2" each.



JTK-44BLK

JTK-44C



Suggested Optional Equipment

Part No.	Description	Shown on Page	Price
JTS-30	Test Set	200	\$194.95
23-814	Punch Down Tool	205	\$39.00
23-077	Tone Generator high power	205	\$28.95
23-095	Tone Tracing Probe	205	\$39.95



**Telecom Tools & Test Equipment
begin on page 195**



Optional Meters
begin on page 74

Master Lock.



**Secure
Your Kit**

TSA air travel approved



Part No.	Description	Price
425-137	Combination Lock	\$10.30

The JTK-44 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

15 tools in all:

Can wrench
Hex key set, fold up
Knife, electrician's

Lamp extractor
Nutdrivers (2): 1/4"; 5/16"
Pliers (2): diagonal cutter V/W notches, 5";
long nose with cutter narrow tip, 6"

Scissors, electrician's
Screwdriver, 6-in-1
Screwdriver, slotted, 3/32" x 2"
Screwdriver, Phillips, #0, x 2

Spudger
Wire unwrapping tool, 20-26 AWG
Wire wrapping tool, 22-24 AWG
Zipper case

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Each
JTK-44C	Telecom Installer's Kit	Brown Cordura	13	13-1/2 x 10 x 2-1/2"	5-1/2	Fixed	\$275.00	989-400	\$76.00
JTK-44BLK	Telecom Installer's Kit	Black Cordura	13	13-1/2 x 10 x 2-1/2"	5-1/2	Fixed	\$275.00	216-444	\$76.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-
216-548	Optional Brown Shoulder Strap	-	-	-	-	-	\$10.00	-	-



JTK®-46

Communications Maintenance Kit

- Available with/without test equipment
- Access, test and repair phone equipment, modems, FAX, switches and distribution systems

The JTK-46 is packed full of tools needed to maintain a variety of communications equipment. Available with or without test equipment, choose the kit that's right for you.

Tuff Cordura® case has three exterior pockets providing room for spare parts, documents and additional test equipment. Plenty of internal pockets for cell phone, test leads and more. D-rings attached for optional shoulder strap.



JTK-46WB
Communications
Kit with Test Equipment



JTK-46CR/W

JTK-46BLK/WB



Buy kits with test equipment that include these items and save:

See JTK-46W & JTK-46WB below



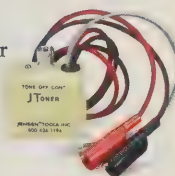
23-814 & 23-110
Punch-Down Tool
w/110 Blade (pg. 205)



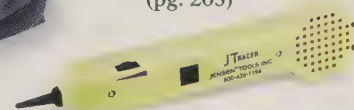
JTS-30 Telephone
Test Set (pg. 200)



23-077
Tone Generator
(pg. 205)



23-095
Tone Tracer
(pg. 205)



Master Lock.



Secure
Your Kit

TSA air travel approved



Part No.	Description	Price
425-137	Combination Lock	\$10.30

The JTK-46 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 60 tools in all:

Extension, driver blades, 4"
Handle, driver blades
(2): 3-1/8", 4-1/8"
Hemostat, straight, 5"
Hex key set, fold-up (9), 5/64" - 1/4"
Insertion/extraction tool
Knife-driver, electrician's
Mirror/magnetic retriever
Modular adapter, 6-8 wire

Modular phone line tester
Nutdriver blades (7): 3/16", 1/4", 5/16", 1/32", 3/8", 7/16", 1/2"
Penlight w/batteries
Pliers (5): mini chain nose, 4-3/4"; diag. cutter, 5-1/4"; mini diag. cutter, 4-1/4"; groove joint, 6"; long nose, 6"
Probe pic
Rule, SS, inch/metric, 6"
Scissors, strip-jaw, electrician's

Screwdriver blades (6): Phillips, #0; #1, #2; slotted, 1/8", 1/4", 3/16"
Screwdriver, Phillips pocketclip, #0
Screwdriver, slotted pocketclip, 3/32"
Screwdriver, ratchet, offset Phillips/slotted
Screwdriver, 2-in-1
Screwdriver set, jeweler's (7)
Screwstarter, double-ended, Phillips/slotted

Spring tool, combination
Spudger
Trimpot adjuster
Tweezers, reverse-action
Wire strippers (2): solid, 22-30 AWG; stranded, 16-22 AWG
Wrench, adjustable, 6"
Wrist strap
Zipper Case

These tools also included in JTK-46W and JTK-46WB:

Punch Down Tool with 110 Blade
Test Set
Tone Generator
Tone Tracker

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-46CR	Communications Kit w/o Test Equip.	Single Gray Cordura	13	16-1/8" x 11-1/2" x 4"	10	Fixed	\$345.00	216-046R	\$87.00
JTK-46BLK	Communications Kit w/o Test Equip.	Single Black Cordura	13	16-1/8" x 11-1/2" x 4"	10	Fixed	\$345.00	216-046BLK	\$85.00
JTK-46W	Communications Kit w/Test Equip.	Single Gray Cordura	13	16-1/8" x 11-1/2" x 4"	12	Fixed	\$650.00	216-046R	\$87.00
JTK-46WB	Communications Kit w/Test Equip.	Single Black Cordura	13	16-1/8" x 11-1/2" x 4"	12	Fixed	\$650.00	216-046BLK	\$85.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-



JTK-4400W

JTK-4400WB/LB



JTK-4400WB
shown with
Optional
DMM



QC Clip design
makes pallet removal
fast and easy



JTK®-4400

Telecom Installation and Service Kits

- Available with or without test equipment
- Cordura® Plus cases feature removable pallets

Designed to meet the needs of Telecom professionals from beginner to senior level engineer.

JTK-4400LB Basic Telecom Kit includes all four pallets, the tools shown in pallet #5 plus parts box in pallet #7 (32 basic telecom tools listed below). **JTK-4400W** and **JTK-4400WB** Deluxe Kits include all the tools of the basic kit plus tools in pallet #6 (excluding the optional Jensen meter). Meter pocket measures 8 x 3-7/8 x 1-3/4".

Rugged Cordura case includes three outside storage pockets, front pocket measures 15 x 11 x 2" and provides storage for documents. Two smaller outside pockets measure 7-1/2 x 11 x 2" and are perfect for carrying additional test equipment. Plenty of internal pockets for cell phone, test leads and more. D-rings attached for optional shoulder strap.



See pages 49-51 for
additional tool
and case options

Master Lock.



Secure
Your Kit



TSA air travel approved

Part No.	Description	Price
425-137	Combination Lock	\$10.30

Suggested Optional Equipment

Part No.	Description	Shown on Page	Price
JTM-69A	True RMS Multimeter	118	\$69.00
JTS-30	Test Set	200	\$194.95
600-700	Crimp Tool Frame	222	\$44.00
600-556	6 Position RJ-11 Die Set	222	\$36.70
600-559	8 Position RJ-45 Die Set	222	\$37.80

The JTK-4400 Tools in boldface *italic* are backed by Jensen's Lifetime Guarantee

Basic Kit includes 32 tools in all:

Extension blade, 4"
Handle, driver (2): 3-1/8";
4-1/8"
Hex driver, security type,
5/32" x 5"
Hex key set, fold-up, 5/64"-1/4"
Knife driver, electrician's
Knife with hook blade

Mirror/magnetic retriever tool
Nutdriver blade (5):
1/4"; 5/16"; 3/8"; 7/16"; 1/2"
Parts box, 6 compartments
Pliers (2): **Chain nose with cutter, 6-1/2";**
diagonal cutter, 5"
Scissors, electrician's
Screwdriver blades (3): **Phillips #1, #2;**
pocket #0 x 3" Screwdriver blades (3): **slot-**
ted 3/16"; 1/4"; pocket
3/32" x 3"
Spudger (2)
Tester, phone line
Wire stripper, 20-30 AWG
Wrap/unwrap tool
Wrench, adjustable, 6"
Zipper Tool Case

These tools also included in JTK-4400W and JTK-4400WB

Cable Cutter
Lamp Extractor
Modular Adapter, 6 position
Punch Down Tool, 66 block
Tone Generator (23-077)
Tone Tracer (23-095)

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
JTK-4400W	Deluxe Telecom Installation Kit	Double Gray Cordura	14	15 x 11 x 6"	14.5	Quick Change	\$575.00	216-440	\$165.00
JTK-4400WB	Deluxe Telecom Installation Kit	Double Black Cordura	14	15 x 11 x 6"	14.5	Quick Change	\$575.00	216-441	\$165.00
JTK-4400LB	Basic Telecom Installation Kit	Double Black Cordura	14	15 x 11 x 6"	13	Quick Change	\$365.00	216-441	\$165.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-



JTK-5WB Shown
with Optional
Test Equipment



See Our Fiber Kits
on p. 187 & 188



JTK-5

JTK-5B/5WB

JTK®-5

Network Kit

- Roomy case holds tools, test equipment and connectors
- Available w/wo test equipment

Contains an ideal selectin of networking hand tools. Spacious case provides additional pockets for cutters, strippers, crimpers and connectors. Clear pockets and parts boxes allow easy inventory of consumables. Rugged Cordura® Plus case has four padded outside pockets for test equipment; one is 7 x 12 x 2" and two are 4.5 x 12 x 2", plus a large 16 x 12 x 2" pocket on the opposite side. Plenty of interior pockets for cell phone, test leads, and more. D-rings attached for optional shoulder strap.

Suggested Options

Part No.	Description	Shown on Page	Price
423-698	MicroScanner Pro VDV Kit	151	\$590.00
JTS-45	Test Set w/Caller ID Testing	200	\$189.00
759-010	Aluminum Manual Wire Wrapping Tool	224	\$102.50
190-420	Solid Barrel Crimp Tool	224	\$95.30
600-360	RJ-11/RJ-45 Modular Crimp Tool	223	\$51.50
191-311	Tell-All Wiremap Tester	155	\$33.60

Master Lock.

Secure Your Kit



TSA air travel approved

Part No.	Description	Price
425-137	Combination Lock	\$10.30



The JTK-5 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 45 tools in all:

Adapter, Modapt RJ-45/11

Extension blade, 4"

Gender changers, 25-Pin (2) F/F; M/M

Handle, driver blades,

(2): 3-1/8, 4-1/8"

Hex key set (9): 5/64-1/4"

Insertion/extraction tool

Knife

Mirror/magnetic retriever

Nutdriver blades (3), 3/16; 1/4; 5/16"

Parts boxes (3)

Penlight w/batteries

Pliers, (3): chain nose with cutter,

6-3/4"; mini chain nose, 4-3/4";

mini diagonal cutter, 4-1/4"

Pliers, locking, curved, 5"

Probe pic

Scissors, electrician's strip jaw

Screwdriver blades, Phillips (3):

#0, #1, #2

Screwdriver blade, slot (3):

1/8, 1/4, 3/16"

Screwdriver, pocketclip (2):

Phillips, #0, slotted 3/32"

Tester, receptacle

Torx blades (3): T10, T15, T20

Wire stripper, 16-26 AWG

Wrench, adjustable 6"

Tool Case

These tools included with the JTK-5WB

Punch Down Tool w/110 blade

CableTracker Toner

CableTracker Probe

Twisted Pair/Coax Stripper

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-5	Network Kit	Double Gray Cordura	14	16-1/2 x 12-1/2 x 5"	13	Fixed	\$345.00	216-005	\$130.00
JTK-5B	Network Kit	Double Black Cordura	14	16-1/2 x 12-1/2 x 5"	13	Fixed	\$345.00	216-500	\$130.00
JTK-5WB	Network Kit w/Test Equipment	Double Black Cordura	14	16-1/2 x 12-1/2 x 5"	14	Fixed	\$525.00	216-500	\$130.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-



JTK®-2100

Network Manager's Kit

- Available with/without test equipment
- Choose Cordura® Plus zipper case or Monaco attache case, both with removable pallets

Cordura Plus Case (shown below) provides plenty of room for your tools, computer, test equipment and business materials. Features combination locks and padded web handle. Center compartment (17-3/4 x 12-1/2 x 5-1/2") carries laptop computer on optional pallet. Padded end pockets measure 10 x 6 x 4". External zipper pocket measures 10 x 17-3/4". D-rings attached for optional shoulder strap.



JTK-2100W Shown with optional Meter and Test Set



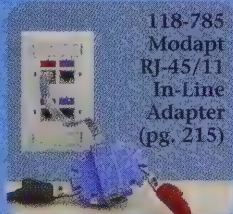
JTK-2100WM

Monaco Case (shown above) offers added protection and security when traveling. Additional room for optional test equipment and accessories.



See Our Fiber Kits on p. 187 & 188

Buy kits with test equipment that include these items and save:
JTK-2100WM & JTK-2100W



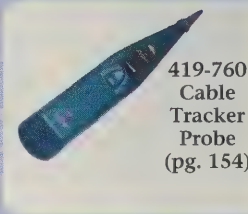
118-785
Modapt
RJ-45/11
In-Line
Adapter
(pg. 215)



23-814
& 23-110
Punch-Down Tool/110
Blade (pg. 205)



419-759
Cable
Tracker
Toner
(pg. 154)



419-760
Cable
Tracker
Probe
(pg. 154)

The JTK-2100 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 55 tools in all:

Cable cutter
Extension, 4"
Handle, 4 1/8"
Hemostat, straight, 6"
Hex key set, BP, 8 pc., .050-5/32"
Hex key set, BP, 6 pc., 1.5-5mm
Insert/extraction tool, D-sub
Knife, light-duty
Mini-maglite with batteries
Mirror/magnetic pick up tool

Nutdriver blades (4): 3/16-3/8"
Phone line tester
Pliers (5); long nose with cutter, 6 1/2"; long nose, 4 3/4"; diagonal cutter, 4 1/4"; slip joint, 6"; locking, 5"
Receptacle tester
Scissors, electrician's
Screwdriver, 2-in-1
Screw/Torx driver, 4-way, pocket clip
Screwdriver, jeweler's set, 7 pc.
Screwdriver, security, 10-in-1,

Torx/tamper Torx
Screwdrivers (7); slotted 3/32 x 3", 1/8 x 4", 3/16 x 8", 1/4 x 4"; Phillips #0 x 3", #1 x 6", #2 x 4"
Screwstarter, 6" double end
Tape measure, 12'/3.5m
Trimpot tool
Wire stripper, 16-26 AWG
Wrench, Adjustable, 6"
Wrist strap, ESD
Tool case

These tools also included in JTK-2100W/JTK-2100WM:

Modapt RJ-45/11 Adapter
Punch down tool w/110 blade
CableTracker Toner
CableTracker Probe

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-2100LM	Network Manager's Kit without Test Equipment	Monaco	1	17-3/4 x 12-3/4 x 5"	17	Individual	\$475.00	377-210	\$180.00
JTK-2100WM	Network Manager's Kit with Test Equipment	Monaco	1	17-3/4 x 12-3/4 x 5"	18	Individual	\$635.00	377-210	\$180.00
JTK-2100L	Network Manager's Kit without Test Equipment	Triple Cordura	15	17-3/4 x 12-3/4 x 11"	14	Quick Change	\$485.00	191-153	\$200.00
JTK-2100W	Network Manager's Kit with Test Equipment	Triple Cordura	15	17-3/4 x 12-3/4 x 11"	15	Quick Change	\$645.00	191-153	\$200.00
216-113	Optional Computer Pallet*	-	-	-	-	-	\$19.00	-	-
216-432	Optional Black Shoulder Strap*	-	-	-	-	-	\$10.00	-	-

* For JTK-2100L and JTK-2100W

JTK®-5000

Network & PC Maintenance Kit

Specifically designed for installing and maintaining networks and computers. Offers a large selection of frequently needed hand tools. Enhancement kit features cable specific tools. Case bottom is divided into three sections, two are foam-filled to protect test equipment.

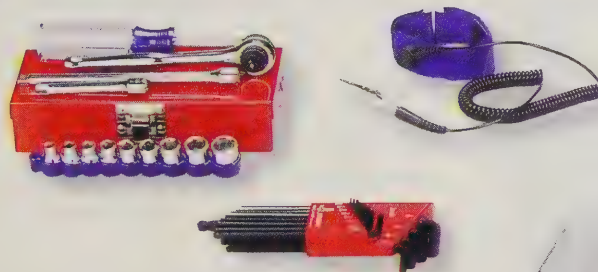
Enhancement Kit includes a cable cutter, Paladin 3 blade coaxial cable stripper, Jensen 110 punch tool and crimp frame with RJ-11, RJ-45, and BNC RG-58, 59, 62 die sets. Also includes CableTracker Toner and Probe.



419-641 Enhancement Kit



See Our Fiber Kits
on p. 187 & 188



on all Jensen
Polyethylene
cases (see page 3)

The JTK-5000 Tools in **boldface italic** are backed by Jensen's Lifetime Guarantee

Over 85 tools in all:

Coax cutter
Extension, driver blade, 4"
Handle, 4-1/8"
Hemostat, 6"
Hexdriver, security, 5/32" x 5"
Hex Key set, inch, 12 pc.
IC insertion tool, CMOS
Key cap puller
Knife, pocket
Lead former

Magnifier w/light, 10-power
Mirror/magnetic retriever
File set, needle, (3)
Nutdriver blade set (7): 3/16" - 1/2"
Parts boxes (2)
Parts holder, 3-prong
Penlight w/ batteries
Phone line
Pliers (3): chain nose with cutter, 6-3/4";
chain nose, mini, 4-3/4"; diagonal cutter, 4"
Pliers, locking, 5"

Probe-pic
Scissors, electrician's
Screwdriver, 2-in-1
Screwdriver, jeweler's set, 7 pc.
Screwdriver, offset ratchet, slot/Phillips
Screwdriver, Phillips (3): #0 x 2-1/2",
pocket clip; #1 x 6"; #2 x 4"
Screwdriver, slotted (4): 1/4" x 4"; 1/8" x 4";
3/16" x 8"; 3/32" x 2", pocket clip
Screwholding drivers (3): .102" x 6"; 3/16" x 6";
9/64" x 6"

Socket set, 1/4" drive, 14 pc.
Spring tool, combination
Stripper/cutter/crimper
Stripper/cutter
Torxdrivers, security (3): T10; T15; T20
Trimpot tool
Tweezer, Boley-Style
Wrench, adjustable, 6"
Wrist strap, grounding
Tool case with pallet

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-5000	Network & PC Maint. Kit	Rota-Tough™	6	17-3/4" x 14-1/2" x 8"	26	Winged	\$630.00	377-101	\$240.00
419-641	Enhancement Kit	-	-	-	5	-	\$389.00	-	-
23-472	Enhancement Pallet Only	-	-	-	2	-	\$24.00	-	-



QC Clip design makes pallet removal fast & easy

JTK®-2900

Network Support Kit

- Contains a comprehensive selection of top quality hand tools to meet your most demanding needs
- Black Cordura® Plus case gives a professional look

This handsome tool case features a large outer flap with latching buckles and a padded foam grip handle. It is extremely versatile, rugged, water resistant and easily cleaned. Solder iron pocket is made of heat resistant Nomex. D-rings attached for optional shoulder strap.

JTK-2900 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 55 tools in all:

Alignment tool
Contact insert/extract tool
DIP extractor
Extension, 4"
Handle, 4-1/8"
Hemostat, 5"
Hex keys, fold-up, inch (9):
.050-3/16"
Hex keys, fold-up, metric (7):
1.5-6mm

Knife, electrician's
Mini-maglite
Nutdriver blades (6), 3/16-3/8"
Pliers (5): locking, 5";
diag. cutter, 4"; diag. cutter, 5";
long nose w/cutter, 6-1/2";
groove joint, 7"
Rule, stainless steel, 6"/15cm
Scissors, electrician's
Screwdriver, offset ratchet,
slotted/Phillips

Screwdrivers (6): Phillips #0 x 3",
#1 x 6", #2 x 4"; slotted 3/32 x 3",
3/16 x 6", 1/4 x 4"
Telephone outlet tester
Tampor-Torx blades (3):
TT8, TT10, TT15
Torx key, fold-up (8) T6-T25
Wire stripper, 16-26AWG
Wrench, adjustable, 6"
Wrist strap, grounding
Zipper tool case

See Our Fiber Kits
on p. 187 & 188



Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Each
JTK-2900	Network Support Kit	Single Black Cordura	-	15 x 11 x 2-1/2"	12	Quick Change	\$340.00	216-030	\$96.90
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-

Lifetime Guarantee on all Jensen brand hand tools



JTK®-2001

Technician's Service Kit

- Choice of Slimline Poly attache or Cordura® Plus zipper case

Slimline Poly case offers added protection and security when traveling. Storage space in bottom of case.

Cordura case has three large exterior pockets for documents and test equipment. Plenty of internal pockets for cell phone, test leads, and more. D-rings attached for optional shoulder strap.

The JTK-2001 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 85 tools in all:

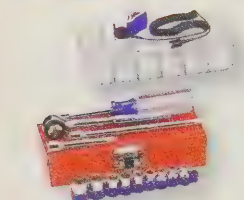
DIP extraction tool
Extension blade, 4"
Files, needle: flat, square, tri.
Handle, regular 4-1/8"
Hemostat, straight, 6"
Hex key set, ball-end, inch, 8 pc.
Insert/extract tool #20 pin/socket
Knife, pocket electrician's
Mirror/magnet, telescoping
Nutdriver blades (9): 3/16-1/2"
Parts box
Penlight w/batteries

Phone outlet tester
PLCC extractor
Pliers (7): mini chain nose 4-3/4";
diag. cutters 4, 5"; groove joint 4";
locking jaw 5"; needle nose 6";
slip joint 6"
Rule, stainless steel, 6"/15cm
Scissors, electrician's
Screwdriver, 2-in-1
Screwdriver, jeweler's, 7 pc.
Screwdriver, offset ratchet, Ph/Sl
Screwdrivers (8):
Phillips #0 x 3", #1 x 6", #2 x 4";

slotted 3/32 x 3", 1/8 x 8",
3/16 x 8", 1/4 x 4", 5/16 x 6"
Screwstarter, Phillips/slotted
Socket set, 1/4" drive, 14 pc.
Stripper, 16-26AWG stranded
Stripper/cutter/crimper
Tape Measure, 12"/3.5M
Torx driver, (4): T8-10-15-20
Trimpot tool
Tweezer, reverse action
Wrench, adjustable, 6"
Wrist strap, grounding
Tool case with pallets



JTK-2001Z JTK-2001S



Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Each
JTK-2001S	Technician's Service Kit	Slimline Poly Attache	3	17-3/4 x 12-3/4 x 5"	21	Individual	\$505.00	54-101	\$170.00
JTK-2001Z	Technician's Service Kit	Single Cordura	13	17-3/4 x 12-3/4 x 5"	18	Quick Change	\$445.00	216-201	\$110.00
216-432	Optional Black Shoulder Strap*	-	-	-	-	-	\$10.00	-	-

* For JTK-2001Z only



JTK® -6100

Support Kit

- Service PCs, workstations, networks ■ Long life Cordura® Plus case

Contains over 50 of the most popular service tools. Three external pockets for extra storage. One is 12" x 10" x 2" and two are 6" x 10" x 2". Plenty of internal pockets for cell phone, test leads, and more. Web strap handles with D-rings attached for optional shoulder strap.

Master Lock.



**Secure
Your Kit**

TSA air travel approved



Part No.	Description	Price
425-137	Combination Lock	\$10.30

JTK-6100

JTK-6100BLK



Shown with
Optional Meter
see page 74

*The JTK-6100 Tools in boldface italic are backed by
Jensen's Lifetime Guarantee*

Over 50 tools in all:

Alignment Tool (2)
Files, Needle (3)
Handles (2): 4-1/8", 3-1/8"
Hex Keys, fold-up (9)
.050 - 3/16"
Hemostat, 3-1/2" straight
Knife, pocket
Mirror/magnet retriever
Nutdriver Blades (7):
3/16", 7/32", 1/4", 9/32",
5/16", 11/32", 3/8"

Parts box
Parts holder, 3-prong
Penlight w/batteries
Pliers, Ignition, 5"
Pliers (4): mini-diagonal,
4"; **mini-chain nose,**
4-3/4"; **groove joint, 7";**
needle-nose, 6"
Screwdriver blades (6):
Phillips #0, #1, #2;
slotted 1/8", 3/16", 1/4"

Screwdriver, 3/32" x 3"
with clip
Screwdriver, #0 x 3"
with clip
Screwstarter, double, 6"
Trimpot adjustment tool
Torx set, fold-up (7), T6-T20
Wire stripper/cutter
Wrench, adjustable 4"
Tool case



Part No.	Description	Case		Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
		Style	(Ref. Pg. 4-5)						Part No.	Each
JTK-6100	Support Kit	Single Blue Cordura		12	13-1/2" x 10" x 2-1/2"	7	Fixed	\$245.00	54-610	\$70.00
JTK-6100BLK	Support Kit	Single Black Cordura		12	13-1/2" x 10" x 2-1/2"	7	Fixed	\$245.00	216-610BLK	\$70.00
216-432	Optional Black Shoulder Strap		-	-	-	-	-	\$10.00	-	-

Lifetime Guarantee

on all Jensen brand
hand tools

JTK® -4SD

Mini-Kit with ESD Tools

A revised version of our ever popular JTK-4V. This kit incorporates ESD drivers and pliers as well as key cap puller; all the basics needed for minor workstation service and repair.



*The JTK-4SD Tools in boldface italic are backed by Jensen's
Lifetime Guarantee*

15 Tools in all:

Handle, driver, ESD
Key cap puller
Mirror, plastic inspection
Nutdriver blades (2), 1/4", 3/16"
Parts holder
Penlight w/batteries
Phillips blades (2), #0, #1
Pliers, diagonal 4-1/4"
Pliers, long nose 4-3/4"
Slotted blades (2), 3.0mm, 6.0mm
Torx blades (2), T10, T15
Tool case, vinyl



Part No.	Description	Case		Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
		Style	(Ref. Pg. 4-5)						Part No.	Each
JTK-4SD	Mini-Kit with ESD Tools	Single Black		-	10" x 6" x 2"	3	Fixed	\$86.70	216-004SD	\$15.00



JTK-50B



JTK® -50

Compact Technician's Kit

- Single sided Cordura® Plus cases
- Most needed tools for maintaining, upgrading and repairing PCs and workstations

Compact kit provides a great selection of most needed tools, including seven screwdrivers, two nut drivers and two Torx drivers. There is even room for a soldering iron.

Cordura® Plus case is virtually indestructible and features three external pockets: one is 10-1/2 x 9 x 2" and two are 5-1/2 x 9 x 2". Plenty of internal pockets for cell phone, test leads, and more.

The JTK-50 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

20 tools in all:

Extractor, DIP
Wrist strap, grounding
Insertion/extraction tool, RS-232
Mirror, inspection
Nutdriver, 3/16"
Nutdriver, 1/4"
Penlight w/batteries

Pliers, chain nose, 4-3/4"

Pliers, diagonal, 4"

Screwdriver, Phillips #0 x 3" pocket

Screwdriver, Phillips #1 x 3"

Screwdriver, Phillips #2 x 4"

Screwdriver, Slotted 1/4 x 4"

Screwdriver, Slotted 3/16" x 3"

Screwdriver, Slotted 3/32" x 3" pocket

Screwdriver, Slotted

1/8" x 3" pocket

Torx driver, T10

Torx driver, T15

Wire crimper/stripper

Wrench, adjustable, 4"

Wrist strap, grounded

Cordura Plus Zipper Case



JTK-50/50B



Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-50	Compact Technician's Kit	Single Blue Cordura	13	11-1/2 x 10 x 2-1/2"	5	Fixed	\$165.00	54-071	\$71.00
JTK-50B	Compact Technician's Kit	Single Black Cordura	13	11-1/2 x 10 x 2-1/2"	5	Fixed	\$165.00	54-014	\$71.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-

Lifetime Guarantee

on all Jensen brand hand tools

JTK® -2000

Field Service Kit

- Available in inch or metric versions

JTK-2000 features a full range of high-quality tools in a rugged Monaco™ case.



JTK-2000



on all Jensen Polyethylene cases (see page 3)

The JTK-2000 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 95 tools in all:

Contact insertion/removal tool RS-232

DIP removal tool

Extension blade, 4"

Feeler gauge, inch/metric

Files, needle (3): flat; round; Tri-Square

Handle, regular, 4-1/8"

Handle, T-style

Hemostat, 6"

Hex driver blades, ball-end (7): .050 - 5/16"

Knife, precision

Lead former

Magnifier with light

Mirror, magnetic retrieval tool (telescoping)

Nutdriver blades (7): 3/16 - 1/2"

Parts box

Parts holder, 3 prong

Penlight, w/batteries

Pliers (6): diagonal, 5-1/4"; diagonal, thin,

4-1/4"; groove joint, 7"; mini long nose,

4-3/4"; needle nose, 6"; retaining ring,

internal/external

Pliers, locking, LN 6"

Mini Ratchet set, 16 pc. (hex, Phillips/slotted)

Rule, stainless steel, 6"/15cm

Scissors, electrician's

Screwdriver set, jeweler's, 7 pc. (slotted/Phillips)

Screwdrivers, Phillips (3): #0 x 2";

#1 x 6"; #2 x 4"

Screwdrivers, slotted (6): 3/32 x 2"; 1/8 x 8";

1/8 x 4"; 1/4 x 4"; 5/16 x 4" 2-in-1

Screwstarter, Phillips/slotted, 9"

Socket set, 1/4" drive, 14 pc.

Spring tool, push/pull

Tape measure, 10'/3m

Telephone line tester

Torx Blades (2): T10, T15

Trimpot tool

Tweezers, reverse action

Wire crimper/stripper

Wire stripper, 16-26 AWG

Wrenches adjustable (2): 4 and 8"

Wrist Strap, grounding

Tool case with pallets

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-2000	Field Service Kit	Monaco™	1	17-3/4 x 12-3/4 x 5"	19	Individual	\$530.00	377-325	\$175.00
JTK-2000MM	Metric Field Service Kit	Monaco™	1	17-3/4 x 12-3/4 x 5"	21	Individual	\$545.00	377-325	\$175.00

JTK®-34

Technician's Kit

- Inch and metric tools
- Rugged Cordura® Plus cases

Contains both inch and metric professional service tools to cover most PC service applications, with room for optional DMM. Case also features three external pockets for larger accessories: one is 11 x 9 x 2" and two are 5-1/2 x 9 x 2". Plenty of internal pockets for cell phone, test leads, and more. Web strap handles with soft rubber grips and D-rings for optional shoulder strap.

Shown with optional meter
See page 74



Master Lock.



Secure
Your Kit

TSA air travel approved.



JTK-34

JTK-34BK

The JTK-34 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 50 tools in all:

Alignment tool
BP hex keys, inch (11)
.050 - 1/4"
BP hex keys, metric (7) 1.5-6mm
Extension blade, 4"
Files, needle (3)
Handles (2) 4-1/8, 3-1/8"
IC extraction tool

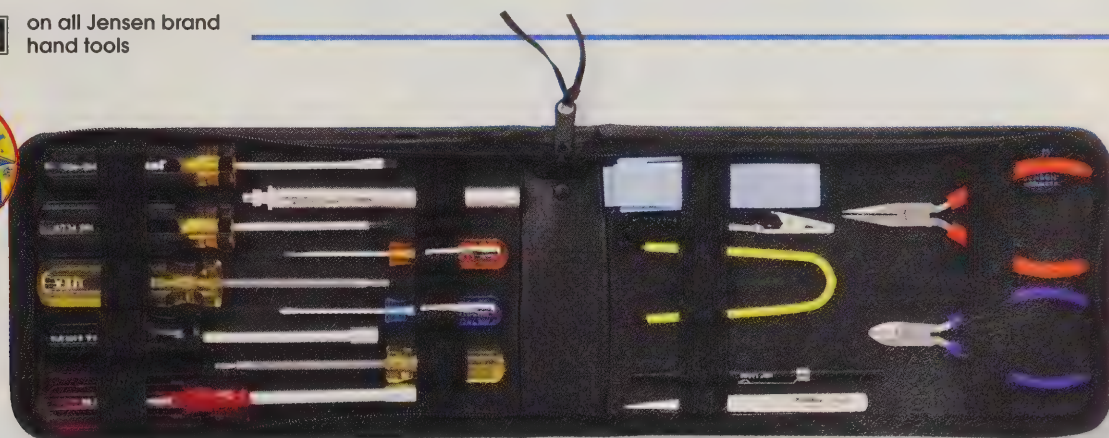
Nutdriver blades, inch
(4) 3/16, 1/4, 5/16, 3/8"
Nutdriver blades, metric (2)
5mm, 7mm
Parts holder, 3-prong
Penlight w/batteries
Pliers (3) diagonal cutter; 4-1/4",
mini long nose; 4-3/4", ignition, #5"
RS232 contact insert/removal tool

Screwdriver blades (6) Phillips #0, #1,
#2; slotted 1/8, 3/16, 1/4"
Screwdrivers (2) pocket clip, #0 x 3"
Phillips, 3/32 x 3" slotted
Trimpot adjustment tool
Torx screwdrivers w(3), T8, T10, T15
Wrench, adjustable 4"
Wrist Strap, grounded
Zipper case

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-34	Technician's Kit	Single Gray Cordura	13	11-1/2 x 10 x 2-1/2"	5-1/2	Fixed	\$205.00	54-034	\$82.00
JTK-34BK	Technician's Kit	Single Black Cordura	13	11-1/2 x 10 x 2-1/2"	5-1/2	Fixed	\$205.00	54-255	\$82.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-

Lifetime Guarantee

on all Jensen brand
hand tools



JTK®-4V

Mini-Kit

- Everything needed for minor service and repair
- Compact - lightweight - only 2-1/2 lbs.

Fits neatly in your briefcase or luggage.

The JTK-4 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

15 tools in all:

IC extractor
Nutdriver (2): 3/16, 1/4"
Penlight w/ batteries

Pliers (2): diagonal cutter 4-1/4",
long nose 4-3/4"
Screwdriver, Phillips (2): #0, #1
Screwdriver, slotted (2): 1/8, 3/16"

Torx® Drivers (2): T10, T15
Trimpot tool
Tweezers, self-locking
Tool case

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-4V	Mini-Kit	Zipper Case	-	10 x 6 x 2"	2-1/2	Fixed	\$76.50	216-004	\$15.00



JTK®-49

Workstation Kits

- Quality tool selection
- Rugged Cordura® Plus cases

Excellent selection of hand-tools needed to troubleshoot and maintain your computer/LAN equipment.

Cases feature padded external pockets, providing extra protection for sensitive equipment. Single Sided Case has three external pockets: one is 12" x 10" x 2" and two are 6" x 10" x 2". Double Sided Case also has three external pockets: one is 14" x 10" x 2" and two are 10" x 7" x 2". Plenty of interior pockets for cell phone, test leads, etc. D-rings attached for optional shoulder strap.

Optional CD ROM/Diskette Pallet, simply remove clipboard to install (JTK-49DBLR and JTK-49DBLRB only).



JTK-49CBBR
Single Sided Case



JTK-49CR

JTK-49CBBR

JTK-49DBLR

JTK-49DBLRB



JTK-49DBLR
Double Sided Case

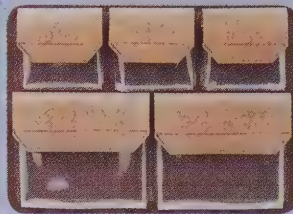
The JTK-49 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 45 tools in all:

Contact, insert/extract tool
DIP, extraction tool
Extension blade, 4"
File, needle, round
Handles, driver blades, (2): 3-1/8", 4-1/8"
Hemostats, straight, 6"
Hex blades (6): .050, 1/16", 3/32", 5/64", 7/64", 1/8"
Knife, push-button
Mirror/magnet tool
Nutdriver blades, (7): 1/4", 11/32", 3/16", 3/8", 5/16", 7/32", 9/32"
Parts holder, 3-prong
Pliers (5): diagonal cutter, 4-1/4"; long nose, 4-3/4"; diagonal cutter, 5"; groove joint 4-3/4"; locking jaw, 5"

Scissors, electrician's w/serration and strip notch
Screwdriver blades, Phillips (3): #0, #1, #2
Screwdriver, Phillips, pocket
Screwdriver blades, slotted (3): 1/4", 1/8", 3/16"
Screwdriver, offset ratchet
Screwdriver, slotted, pocket
Screwstarter, Phillips/slotted, 6"
Spudger
Telephone line tester
Torx drivers; T10, T15, T20
Trimpot tool
Wire stripper
Wrench, 4" adjustable
Wrist strap, grounding
Tool case, Cordura

Optional CD ROM/ Diskette Pallet



Master Lock.



**Secure
Your Kit**

TSA air travel approved



Part No.	Description	Price
425-137	Combination Lock	\$10.30

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
JTK-49CR	Workstation Kit	Single Blue Cordura	13	13-1/2" x 10" x 2-1/2"	8	Fixed	\$305.00	191-149	\$85.00
JTK-49CBBR	Workstation Kit	Single Black Cordura	13	13-1/2" x 10" x 2-1/2"	8	Fixed	\$305.00	191-177	\$85.00
JTK-49DBLR	Workstation Kit	Double Khaki Cordura	14	14-1/2" x 10-1/2" x 2-1/2"	12	Fixed	\$365.00	191-173	\$135.00
JTK-49DBLRB	Workstation Kit	Double Black Cordura	14	14-1/2" x 10-1/2" x 2-1/2"	12	Fixed	\$365.00	191-139	\$135.00
216-249	Optional CD Rom/Diskette Pallet*	Khaki	-	-	1	-	\$18.00	-	-
216-249B	Optional CD Rom/Diskette Pallet*	Black	-	-	1	-	\$18.00	-	-
216-548	Optional Brown Shoulder Strap	-	-	-	-	-	\$10.00	-	-
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-

* For JTK-49DBLR and JTK-49DBLRB

Customize A Tool Kit To Meet Your Specific Needs With 6 Case Styles To Choose From

JENSEN® Simple Two-Step Process . . .

1 Select Your Tool Case

Choose between a single, double or triple sided Cordura Plus case, or our Attache' style single sided case. All cases accept any of the tool pallets shown on the following pages. See chart below for tool pallet capacity.

Single and Double sided cases feature three outside pockets for test equipment and documents, one measures 15 x 11 x 2" and two are 7-1/2 x 11 x 2". Plenty of inside pockets for cell phone, test leads, and more. Heavy-duty web-strap handles and D-rings attached for optional shoulder strap.

Triple sided case has an outside zippered document pocket that measures 9 x 15-1/2" and a center storage area that measures 15 x 11 x 4-1/2". Padded side pockets measure 4 x 9 x 2-1/2". Also features heavy-duty web-strap handles, combination locks and D-rings attached for optional shoulder strap.

Attache' case has large outer flap with latching buckles, an extra padded foam-grip handle and two zipper pockets. D-rings attached for optional shoulder strap.



Sample Pallet configuration shown in Double Sided Case

QC Clip makes pallet removal fast and easy



Single Sided

Double Sided

Triple Sided

Attache'

Part No.	Description	Case Style (Ref. Pg. 4)	Style No.	Inside Dimensions (L x W x D)	Tool Pallet Capacity	Price
216-750	Case only	Single Gray Cordura	13	15 x 11 x 3"	2	\$60.00
216-760	Case only	Single Black Cordura	13	15 x 11 x 3"	2	\$60.00
216-301	Case only	Double Gray Cordura	14	15 x 11 x 6"	4	\$95.00
216-401	Case only	Double Black Cordura	14	15 x 11 x 6"	4	\$95.00
216-402	Case only	Triple Black Cordura	15	15 x 11 x 9.5"	4	\$135.00
216-029	Case only	Black Attache	-	15 x 11 x 3"	2	\$65.00
216-432	Optional Black Shoulder Strap	-	-	-	-	\$10.00

2 Select Your Pallets... with or without tools

See Pages 50 & 51

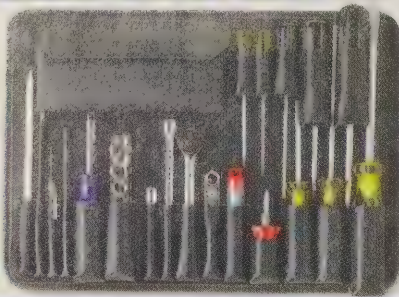
Empty Pallets				Pallets with Tools	
Part No.	Price	Pallet No.	Description	Part No.	Price
216-302	\$18.00	1	Screwdrivers, 14 piece socket set, etc.	9123-001	\$95.00
216-303	\$18.00	2	Pliers, Mitylite, Stripper/Cutter/Crimper, etc.	9123-002	\$122.00
216-305	\$18.00	3	99® Series Interchangeable Drivers, etc.	9123-003	\$87.00
216-306	\$18.00	4	Open End Wrench Set, Locking Pliers, etc.	9123-004	\$112.00
216-105	\$18.00	5	99® Series Drivers, Pliers etc.	9123-005	\$217.00
216-106	\$18.00	6	Telecom Test, etc. (w/o meter)	9123-006	\$261.00
216-106	\$18.00	6	Telecom Test, etc. (w/Jensen JTM-69A)	9123-006M	\$320.00
216-107	\$18.00	7	Accessory Pallet	N/A	N/A
216-108	\$18.00	8	Document Portfolio	N/A	N/A
216-751	\$18.00	9	99® Series Drivers, Screwdrivers, Pliers, etc.	9123-009	\$127.00
216-752	\$18.00	10	Pliers, Mini-Wrenches, etc.	9123-010	\$147.00
216-753	\$18.00	11	99® Series Precision Tools, etc.	9123-011	\$87.00
216-776	\$13.00	12	Clipboard, 13 x 9-1/2"	N/A	N/A
216-775	\$13.00	13	Notebook Computer Pallet, 12 x 10 x 2-1/2"	N/A	N/A
216-314	\$18.00	14	Pliers, Fold-Up Keys, etc.	9123-314	\$147.00
216-099	\$18.00	15	All 99® Series Interchangeable Drivers	9123-015	\$132.00
216-249B	\$18.00	16	CD-ROM and Diskettes Pallet	N/A	N/A
216-315	\$18.00	17	99® Series Nut/TTorx Drivers, Screwdrivers, etc.	9123-317	\$112.00
418-905	\$18.00	18	Pliers, adj. wrench, Mini Mag, util. knife	418-906	\$90.00

SAVE TIME... select one of three pre-assembled, application-oriented tool kit designs in their respective sections: Bio-Medical (pg. 34) - Telecom (pg. 40) - Network Support Kit (pg. 44)



JENSEN®

1



Pallet #1 Tool Selection

Tool Pallet	Screwdriver Slotted
Alignment Tool	3/16 x 3"
Screwdriver Ratchet	Screwdriver Slotted
Screwdriver 2-n-1	5/16 x 6"
Screwdriver Phillips 1pt x 3"	Screwdriver Blade Mini
Screwdriver Phillips 1pt x 6"	Alignment Tool Double End
Screwdriver Phillips	Trimpot Adjustment Tool
Opt. x 3" pocket clip	#2 CVT Round File Needle
Screwdriver Phillips	#2 CVT 1/2 Round File Needle
2pt x 4"	#2 CVT 3 Square File Needle
Screwdriver Slotted	#2 Equaling File Needle
3/32 x 3" pocket clip	Socket Set, 14 piece.
Screwdriver Slotted 1/8 x 4"	

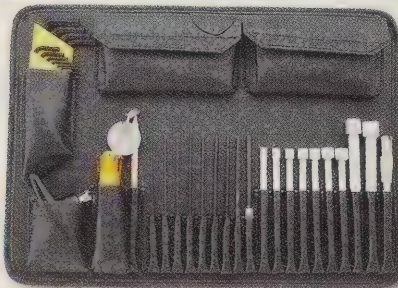
2



Pallet #2 Tool Selection

Tool Pallet	Pliers Chain Nose
Pin Vise (0-.125")	Rule SS 6"15cm
Swivel Top 3-1/2"	w/Pocket Clip
Hemostat Straight 6"	Mitylite Penlight - Watertight
Solder Pocket Pack 60/40	Electrician's Knife/Driver
Pliers Chain Nose	Pliers Retaining Ring
Pliers Diagonal Cutter	Jensen
Pliers Diagonal Cutter	Stripper/Cutter/Crimper
Pliers Groove Joint 7"	

3



Pallet #3 Tool Selection

Tool Pallet	Nutdriver Blade 1/2"
Ball/Hex Key Set - Long	Hex Blade .050"
12 pc., .050-5/16"	Hex Blade 1/16"
Handle 4 1/8"	Hex Blade 5/64"
Extension Blade	Hex Blade 3/32"
Nutdriver Blade 3/16"	Hex Blade 1/8"
Nutdriver Blade 7/32"	Hex Blade 5/32"
Nutdriver Blade 1/4"	Hex Blade 3/16"
Nutdriver Blade 9/32"	Hex Blade 9/64"
Nutdriver Blade 5/16"	Hex Blade 7/64"
Nutdriver Blade 11/32"	"T" Handle Driver Handle
Nutdriver Blade 3/8"	Pick Up Tool Mirror/Magnet
Nutdriver Blade 7/16"	

4



Pallet #4 Tool Selection

Tool Pallet	Wrench Combo 1/4"
Adjustable Wrench 6"	Wrench Combo 3/4", 12 pt.
Mini Open End Wrench Set,	Wrench Combo 3/8"
8 pc. (13/64-3/8")	Wrench Combo 5/16"
Spline Key Set, 10 pc.	Wrench Combo 5/8", 12 pt.
(.033-4 to .113-6)	Wrench Combo
Pliers, 7" Locking, Cv Jaws	7/16", 12 pt.
Wrench Combo	Wrench Combo
11/16", 12 pt.	9/16", 12 pt.
Wrench Combo 1/2, 12 pt.	

5



Pallet #5 Tool Selection

Tool Pallet	Slot Blade 3/16"
Hand Wire	Phillips Blade #1
Wrap/Unwrap/Stripper	Phillips Blade #2
Wire Stripper 20-30 AWG	Handle 4 1/8"
Adjustable Wrench	Handle 3 1/8"
Hex Key Fold-Up Set,	4" Extension Blade,
9 pc. #5/64 to 1/4"	99 Series
Spring Tool Combination	Nutdriver Blade 1/4"
Utility Knife	Nutdriver Blade 1/16"
Pliers Chain Nose	Nutdriver Blade 3/8"
Pliers Diagonal Cutter	Nutdriver Blade 7/16"
Security Hex Driver 5/32	Nutdriver Blade 1/2"
Electrician Scissors	Phone Outlet Tester
Screwdriver Phillips,	Electrician's Knife/Driver
0 pt. X 3"	Pick Up Tool Mir/Magnet
Screwdriver Slotted,	Small Spudger
3/32 x 3"	Spudger
Slot Blade 1/4"	

6



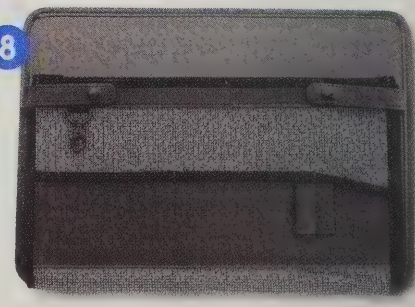
Pallet #6 Tool Selection

Tool Pallet	Lamp Extractor
Punch-Down Tool	Punch-Down Blade
Cable Cutter	Optional #JTM-69A
Modular Tester Adapter	Jensen DMM
Tone Generator	(included only with 9123-006M)
Tone Tracer	

7



8



18 Tool Pallet Configurations To Choose From

Tools in boldface italic are backed by Jensen's lifetime guarantee.



9



Pallet #9 Tool Selection

Tool Pallet
Mini Utility Knife
Screwdriver Ratchet
Screwdriver 2-n-1
Pliers Diagonal Cutter
Pliers Needle Nose
Pliers Diagonal Cutter
Pliers Groove Joint 7"
Tape Measure 12"/3.5m
Screwdriver Phillips, 1 pt. X 6"
Screwdriver Phillips, 0 pt. X 3"
Screwdriver Slotted, _ x 4"
Screwdriver Phillips, 2 pt. X 4"

Screwdriver Slotted, 3/32 x 3"
Screwdriver Slotted, 3/16 x 6"
Nutdriver Handle 4 1/8"
Nutdriver Blade 3/16"
Nutdriver Blade 7/32"
Nutdriver Blade 1/4"
Nutdriver Blade 9/32"
Nutdriver Blade 5/16"
Nutdriver Blade 3/8"
Nutdriver Blade 7/16"
Jeweler's Screwdriver Set
Trimpot Adjustable Tool

10

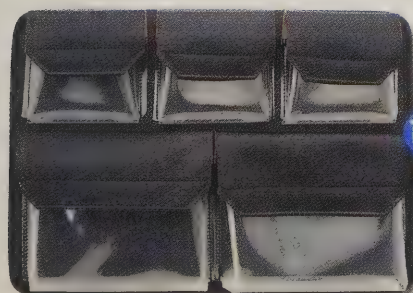


Pallet #10 Tool Selection

Tool Pallet
Hemostat Straight 5"
Adjustable Wrench
Spring Tool Combo
Tweezer Carbon Steel
Electrician's Scissors
6-1/4" Stainless Steel Rule
Machinist Scriber
Wire Stripper/Cutter
Open End Wrench Set, 8 pc. 13/64-3/8" Mini
Tester Receptacle

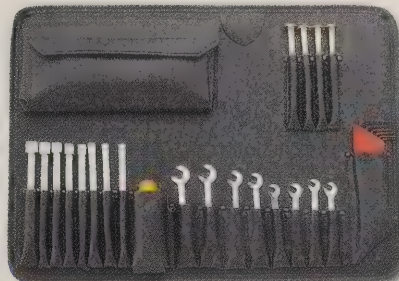
6 x 9/64" Screwstarter
6x.102 Screwholding Driver
Mini-Maglight Flashlight
Pick Up Tool Mirror/Magnet
#2 Cvt Round File Needle
#2 Cvt 3 Sqr File Needle
#2 Equaling File Needle
Pliers, 5" Locking, Curved Jaw
Ball/Hex Key Set, 8 pc. .050 to 5/32"

Tools in boldface italic are backed by Jensen's lifetime guarantee.



16

11



Pallet #11 Tool Selection

Tool Pallet
Long Ball/Hex Key Set, 6 pc. #1.5 to 5mm
HANDLE 3-1/8"
Nutdriver Blade, 6mm
Nutdriver Blade, 4.5mm
Nutdriver Blade, 5.0mm
Nutdriver Blade, 5.5mm

Nutdriver Blade, 6.0mm
Nutdriver Blade, 7.0mm
Nutdriver Blade, 8.0mm
Nutdriver Blade, 9.0mm
Open End Wrench Set, 8 pc. 4-9mm Mini
Metric X-Point Set

14



Pallet #14 Tool Selection

Tool Pallet
Dip Extractor, Tweezer Style
Phone Outlet Tester
Insert Extract Tool
Electrician's Scissors
Hemostat Straight 5"
Electrician's Knife/Driver
Hex Key Fold-Up Set, .050-3/16"

Torx Key Fold-Up Set, T6-T25
Hex Key Fold-Up, 1.5-6mm
Wrist Strap ESD
Mini-Maglight Flashlight
Adjustable Wrench
Locking Pliers
Wire Stripper/Cutter
Pocket Rule SS 6"/15cm
Pliers Groove Joint 7"

15



Pallet #15 Tool Selection

Tool Pallet
Slot Blade 1/8"
Slot Blade 1/4"
Slot Blade 3/16"
Phillips Blade #0
Phillips Blade #1
Phillips Blade #2
Handle 4-1/8"
Handle 3- 1/8"
4" Extension Blade, 99 Series
Nutdriver Blade 3/16"
Nutdriver Blade 7/32"
Nutdriver Blade 1/4"
Nutdriver Blade 9/32"
Nutdriver Blade 5/16"
Nutdriver Blade 11/32"
Nutdriver Blade 3/8"

Nutdriver Blade 7/16"
Nutdriver Blade 1/2"
Hex Blade .050"
Hex Blade 1/16"
Hex Blade 5/64"
Hex Blade 3/32"
Hex Blade 1/8"
Hex Blade 5/32"
Hex Blade 3/16"
Hex Blade 9/64"
Hex Blade 7/64"
Screwdriver/Nutdriver Set, 12 pc.
"T" Handle, 99 Series
Reamer Blade, 99 Series
Slotted Blade, 99 Series
Stubby Handle, 99 Series

17



Pallet #17 Tool Selection

Tool Pallet
Pliers Chain Nose
Pliers Diagonal Cutter
Pliers Diagonal Cutter
Screwdriver Ratchet
Nutdriver Blade 11/32"
Nutdriver Blade 5/16"
Nutdriver Blade 9/32"
Nutdriver Blade 1/4"
Nutdriver Blade 7/32"
Nutdriver Blade 3/16"
TTorx Driver Blade TT15
TTorx Driver Blade TT10
TTorx Driver Blade TT8

Extension Blade
Driver Handle 4-1/8"
Screwdriver Phillips, 0 pt. x 3"
Screwdriver Slotted, 3/32" x 3"
Screwdriver Slotted, 3/16" x 6"
Screwdriver Slotted, _ x 4"
Screwdriver Phillips, 1 pt. x 6"
Screwdriver Phillips, 2 pt x 4"
Alignment Tool Double End, Slotted

18



Pallet #18 Tool Selection

Tool Pallet
Pliers Groove Joint 10"
Pliers Slip Joint 6-1/2"
Pliers Long Nose 6-1/2"

Pliers Diagonal Cutter 6-1/2"
Utility Knife
Mini Maglight Flashlight
Adjustable Wrench 8"



VK®-7

Basic Field Service Kit

■ Ideal for field service, trade schools, office, shop or personal use

These economical kits feature 64 top quality domestic and foreign tools needed for a variety of electronic, electrical and mechanical maintenance tasks.

Kit features a black polyethylene case with two removable pallets and heavy-duty loop-stitched elastic straps designed to hold the tool assortment safe and secure. Key-lock latches and combination lock provide security. This kit will give you years of dependable service.

VK-7 Tool Collection

Over 60 tools in all:

Alignment tools (2)
Feeler gauge .0015-.025"
Hammer, ball peen, 4 oz.
Handle, driver blades, 4-1/2"
Hemostat, 5"
Hexdriver blades (6): 1/16 - 9/64"
Knife, mini
Mirror, inspection
Nutdriver blades (6): 3/16-1/2"
Penlight w/batteries
Pliers (5): diagonal cutter, 4-1/2";
diagonal cutter, 6"; groove joint, 8";
long nose, 4-1/2";
long nose with cutter, 6-1/2"
Punch, center, 3/32"

Punches, pin (2): 1/16; 1/8"
Rule, stainless, 6"
Scissors, thin-line*
Screwdrivers (12): offset; Phillips, #0 x 2",
#1 x 3", #2 stubby, #2 x 4"; slotted,
1/8 x 2", 3/16 x 6", 3/16 x 3"; 1/4" stubby,
1/4 x 4", 5/16 x 6", offset (2)
Screwstarter, Phillips/slotted
Socket set, 1/4" drive, 14 pc.
Solder aid, fork and hook
Soldering iron
Spring tool, combination
Tweezers, reverse action
Wire crimper/stripper
Wrenches, adjustable (2): 4"; 8"
Tool case with pallets

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
VK-7	Basic Field Service Kit	Lightweight Poly	4	17-3/4 x 12-3/4 x 4-3/4"	22	Individual	\$310.00	356-712	\$138.00



Optional Meters
begin on page 74



VK®-8P

Deluxe Field Service Kit

■ Excellent value

■ Ideal for field service, trade schools, office, shop or personal use

Contains over 100 tools for the installation and repair of most electronic equipment. Tools have been carefully selected to meet high performance standards while keeping price in mind.

Kit features a black polyethylene case with two removable tool pallets. Clear vinyl pockets hold tools snugly in place. Key-lock latches and combination lock provide security. This kit will give years of dependable service.

VK-8P Tool Collection

Over 100 tools in all:

Desolder wick
Hammer, ball peen, 4 oz.
Handle, (2) 4-1/8", 3-1/8"
Hex driver blades, (9): .050-3/16"
Hex key set, (10): .028-5/32"
IC extractor
Knife, precision with 5 blades
Mirror, inspection
Needle file set, 8 pcs.
Nutdriver blades, (9): 3/16-1/2"
Penlight w/batteries
Pliers, (7): groove joint, 10"; slip joint, 6"; locking, 5"; long nose with cutter, 6"; long nose, 4-1/2"; diagonal cutter, 4-1/2"; diagonal cutter, 5-1/4"
Punches, (3): 3/32" center, 1/8 & 1/16" pins

Screwdriver set, jeweler's, 7 pc.
Screwdrivers, (11): Philips: No.0 x 3" pocket clip, No.1 x 3", No.2 x 4", No.2 stubby;
Slotted: 1/8 x 3" pocket clip, 3/16 x 3" pocket clip, 3/16 x 3", 3/16 x 6", 1/4 x 4", 1/4 x 1-1/4" stubby, 5/16 x 6"
Screwstarter, double-end, slot/Phillips
Scriber, needle point
Socket set, 14 pc., 1/4" drive, 3/16-1/2"
Soldering iron
Solder aid, knife/brush
Spline key set, 10 pc.
Wire crimper/stripper/cutter
Wrench, adjustable 6"
Tool case with pallets

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
VK-8P	Deluxe Field Service Kit	Lightweight Poly	4	17-3/4 x 12-3/4 x 4-3/4"	23	Individual	\$410.00	23-178	\$150.00



VK®-6

Compact Economy Tool Kit

Includes most standard tools required for servicing or repairing electronics and electrical equipment.

Padded vinyl zipper case features heavy-duty loop-stitched elastic straps to hold tools safe and secure, inside-pouch for spare parts and heavy-duty zipper. Stores easily in a desk drawer or file cabinet.

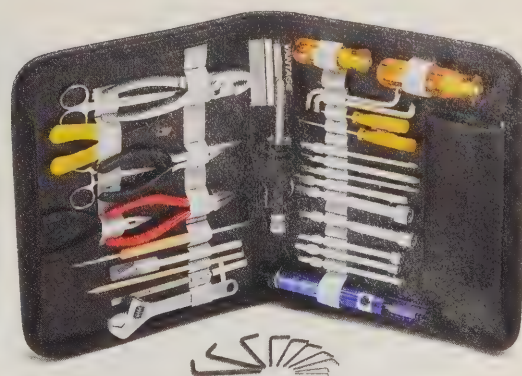
VK-6 Tool Collection

Over 35 tools in all:

Birchwood stick
Hemostat, 3-1/2"
Knife, light-duty
Nutdriver blades (5): 3/16", 1/4",
3/8", 7/16", 1/2"
Nutdriver handles (2):
3-1/8", 4-1/8"

Pliers (4): diag. cutter, 5-1/4"; long
nose, 4-3/4"; long nose, 6-3/4";
slip joint, 6"
Rule, 6"
Scissors, thinline, 5"
Screwdrivers (4): Phillips offset,
pocket clip; slotted offset,
pocket-clip

Screwdriver blades (4): Phillips #1,
#2; slotted 3/16", 1/4"
Solder aid
Solder removal tool
Soldering iron
Wire stripper/cutter
Wrench, adjustable, 6"
Wrench set, Allen hex
Zipper Case



VK®-5

Multi-Fastener Service Kit

■ Perfect for light mechanical work

■ More than 50 tools

This compact multi-use kit features all of the essential fastening tools. A padded vinyl zipper case with heavy-duty elastic strap holders holds the tools securely, with an inside pouch for test leads and spare parts. Metric kit has all metric drivers.

VK-5 Tool Collection

Over 50 tools in all:

Extension blade, 4"
Handle, driver blades (2):
3-1/4"; 4-1/4"
Hemostat, 6"
Hexdriver blades (9):
.050", 1/16", 5/64", 3/32",
7/64", 1/8", 9/64",
5/32", 3/16"
Knife, precision

Nutdriver blades (9):
3/16", 7/32", 1/4", 9/32",
5/16", 11/32", 3/8",
7/16", 1/8"
Penlight w/batteries
Pliers (3): diagonal 5";
groove joint, 7";
long nose, 6-1/2"
Rule, 6"
Scissors, thinline

Screwdriver blades (6): Phillips, #0;
#1; #2; slotted, 1/8", 3/16", 1/4";
offset, ratchet
Screwdrivers (2): Phillips, pocket clip;
slotted, pocket clip
Socket set, 1/4", 13 pc.
Tape measure, 10"/3M
Torx key, fold up set
Wrenches adjustable (2): 4"; 8"
Zipper Case



VK®-1

Mini-PC Kit

■ All drivers have lifetime warranty

■ Compact, lightweight padded vinyl case

Kit contains the basic tools needed to access, service and upgrade most PCs and related equipment. Compact zipper case fits almost anywhere: desk drawer, briefcase, luggage, etc.

VK-1 Tool Collection

15 tools in all:

IC extractor
Nutdrivers (2):
3/16", 1/4"
Parts holder,
3 prong
Penlight w/batteries

Pliers (2): diag.
cutter, 4-1/2";
long nose, 5"
Screwdriver, Phillips
(2): #1, #2
Screwdriver, slotted
(2): 1/8", 3/16"

Torx drivers (2):
T10, T15
Trimpot tool
Wrist Strap,
Grounded
Zipper case



VK®-2

Workstation Repair Kit

■ Ideal for service and repair

■ Compact, lightweight polyester case

Kit contains the essential tools needed for access, service and repair of most PCs and related equipment. Zipper case is rugged black polyester material with lots of space inside for tools and three exterior pockets for larger items: one is 10" x 9" x 1" and two are 5" x 9" x 1".



VK-2 Tool Collection

Over 20 tools in all:

IC extractor
Insertion/extraction tool
RS232 contacts
Mirror, inspection
Nutdrivers (2): 3/16", 1/4"
Parts holder

Penlight w/batteries
Pliers (2): diag. cutter,
4-3/4", long nose, 4-3/4"
Screwdrivers (6): Phillips
#0 x 2-3/4", #1 x 3",
#2 x 4"; slotted 1/8" x 2",
3/16" x 3", 1/4" x 4"

Torx drivers (2): T10, T15
Trimpot tool
Wire crimper/stripper
Wrench, adjustable, 4"
Wrist Strap, Grounded
Zipper case

Part No.	Description	Case Style	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
								Part No.	Each
VK-6	Economy Tool Kit	-	-	11-3/4" x 9-3/4" x 1-1/4"	7	Fixed	\$125.00	207-075	\$25.00
VK-5	Inch Multi-Fastener Kit	-	-	13-1/2" x 10" x 2-1/2"	7	Fixed	\$185.00	23-535	\$41.00
VK-5M	Metric Multi-Fastener Kit	-	-	13-1/2" x 10" x 2-1/2"	8	Fixed	\$185.00	23-535	\$41.00
VK-1	Mini-PC Kit	-	-	10" x 6" x 2"	3	Fixed	\$56.10	216-004VK	\$13.00
VK-2	PC Repair Kit	-	-	11-1/2" x 10" x 2"	6	Fixed	\$120.00	216-002	\$25.00



JENSEN® Soft-Sided "Tote" Tool Case

- Carry your tools, laptop and business materials in one rugged case

Exterior is made of durable nylon and is reinforced with a rigid frame. Curb/stair skids provide added durability. **Tool Section** holds two 17-3/4 x 12-3/4" tool pallets. Three removable zippered pouches are perfect for storing a multimeter, probes, etc. Padded **Laptop Section** holds computer up to 10 x 13", removable pouch stores laptop accessories and pockets hold CD's and diskettes. **Briefcase Section** is equipped with multiple pockets for phone, business cards, pens/pencils, documents and more. Outside zippered pocket allows for quick access to airline tickets and documents. **Tools sold separately.**

Part No.	Description	L x W x D (OD)	Weight	Price
216-651	Case	18-1/2 x 13-3/4 x 9"	11 lbs.	\$199.00
418-901	Case w/Pallets	18-1/2 x 13-3/4 x 9"	14 lbs.	\$245.00
216-432	Optional Shoulder Strap	—	—	\$10.00



Tools sold separately

Polyethylene Tool Case

A long standing tradition for many technicians. Features two fixed pallets made of heavy olive-colored canvas, double-stitched at points of stress. Two zippered pockets hold small parts. Bottom section is divided in the center and holds additional tools and parts. Corners are metal reinforced. (USA)

Part No.	Description	L x W x D (ID)	Price
191-135	Polyethylene Tool Case	15 x 11-1/4 x 5-1/4"	\$115.00



platt
COMMERCIAL CASES AND EQUIPMENT

Guardsman™ ATA Tool Case with Wheels and Telescoping Handle

Tools sold separately

Built to Jensen specifications by Platt. This heavy-duty tool case is made of HMW polyethylene and has a continuous industrial frame to form a strong, but lightweight case. Hardware is recessed for stackability and protection. Additional features include heavy-duty twist-draw latches, padlock hasp, full-length piano hinge, spring-loaded handles, literature pocket and foam in bottom. Telescoping handle extends to 3'. Case will accommodate Jensen pallets measuring 17-3/4 x 14-1/2".

Part No.	Description	Dimensions (ID)	Weight	Price
373-250	ATA Tool Case	18-1/2 x 14-1/2 x 9-3/4"	22 lbs.	\$510.00
418-903	ATA Tool Case w/Pallets	18-1/2 x 14-1/2 x 9-3/4"	25 lbs.	\$550.00



Tools sold separately

JENSEN® Euro-Style Tool Case

- Accommodates larger tools

Black rugged duty case is ideally suited for the electrical or mechanical technician who needs to carry larger tools. Elastic straps hold small tools and accessories. 3-pallet arrangement will fit any of our tool cases that measures 17-3/4 x 14-1/2" inside. (USA)

Part No.	Description	L x W x D	Price
356-999	Euro-Style Tool Case	17-1/2 x 14-1/2 x 9"	\$215.00



Tools and Laptop
not Included



Contractor's Briefcase™

Mobile office and tool case in one. Constructed of extra-rugged 600-denier polyester fabric with adjustable shoulder strap. Plenty of room for plans, file folders, note pads, pen/pencils, business cards, and CD/diskettes. Fourteen tool pockets include space for a 30' tape measure. Full drop-down panels provide easy access. Hear-Through™ cell phone pocket. 12 x 16 x 5".

Part No.	Description	Price
51-005	Contractor's Briefcase™	\$45.90

JENSEN®



Backpack Tool Case

- Lightweight & durable Cordura® Plus material
- Carries over 100 tools

Tools are loaded on to the three pallets and are retained by an elastic netting. Pack unzips all the way around for easy access. Top carry handle makes it easy to grab-and-go. Padded shoulder strap design makes backpack comfortable to carry. 18 x 16 x 6".

Tools sold
separately

Part No.	Description	Price
54-964	Backpack Tool Case	\$139.00

Rugged Tote Bags

Rugged nylon tote bags feature web strap handles, oversize zipper and two exterior snap pockets. Choose from three colors. 5-1/2 x 6 x 12".



Part No.	Description	Price
216-652	Olive Drab Tote Bag	\$11.95
216-653	Black Tote Bag	\$11.95
216-654	Blue Tote Bag	\$11.95



Complete with
D-rings for
optional
shoulder strap.

JENSEN®

Mechanic's Tool Bag

The famous GI bag is now available in Cordura nylon in a choice of colors, with oversize zipper and web strap handles. Six sewn-in pockets inside. Two exterior snap pockets each divided into three sections. D-rings attached for optional shoulder strap. 5-1/2 x 6 x 12".

Part No.	Description	Color	Price
392-306	Tool Bag	Navy	\$19.95
216-075	Tool Bag	Royal Blue	\$19.95
216-070	Tool Bag	Red	\$19.95
216-074	Tool Bag	Black	\$19.95
216-072	Tool Bag	Burgundy	\$19.95
892-030	Tool Bag	Green	\$19.95
216-603	Optional Shoulder Strap	Black	\$3.00



STANLEY PROTO

Heavy-Duty Canvas Bags

- Steel frame
- Reinforced bottoms

Rugged #8 white canvas reinforced with vinyl. One-piece construction riveted to 12 gauge steel-hinged frame. Riveted leather handles. Water resistant fiberboard bottom with metal studs for added protection and durability. **Utility Bags** are constructed of same canvas material but have no frame or handles. Heavy-duty zipper closure. (USA)

Part No.	Description	L x W x D (ID)	Price
185-210	Heavy-Duty Bag	14 x 6 x 15"	\$59.00
37-139	Utility Bag	12 x 7"	\$6.50



Sparky™ 423-781

New



GateMouth™
OpenFace™ 419-640



GateMouth™
51-004



GateMouth™ Jr.
51-007



Soft Sided Organizers

GateMouth™ and GateMouth™ Jr. tool bags are made from rugged 600 denier fabric and feature 9" wide mouth openings, web strap handles, steel hinge frame and a rigid bottom to retain shape. GateMouth comes with a shoulder strap.

Pro Super GateMouth™ is made of rugged ripstop fabric with ballistic reinforcement on sides and bottom. 39 exterior pockets and 10 interior pockets, web strap handles, steel hinge frame, rigid bottom padded to protect tools. Shoulder strap included.

GateMouth™ OpenFace™ features a waterproof rubber bottom and 29 pockets/tool loops. Large interior with removable partition helps you customize the bag to fit your needs. Plastic storage box and shoulder strap included. Made of rugged 600 denier fabric.

Sparky™ Electrician's Pouch

Developed for shock jockeys, this full nylon pouch was designed to stand upright when set down. Multiple pockets organize tools. Carry it three ways - on your heavy-duty belt (included), over your shoulder, or with the integrated carry handle. Comes with a built-in cellphone/two-way radio pocket and plastic reinforced knife pocket. Made with 1680 denier fabric. Rubber reinforced bottom.

ToolBoss™ and ToolBoss™ Jr.

Vertical tool organizer with large center section for larger tools. Features rugged 600 denier fabric, rubber bottom, web strap handle and shoulder strap. ToolBoss Jr. has tool storage on one side (pictured above) while ToolBoss has tool storage on both sides.

Part No.	Description	L x W x D (OD)	Price
51-004	GateMouth	17 x 9 x 12"	\$40.00
51-007	GateMouth Jr.	13 x 9 x 8"	\$28.00
419-640	GateMouth OpenFace	13 x 7 x 10"	\$43.00
51-008	Pro Super GateMouth	19 x 14 x 12"	\$57.00
423-781	Sparky Electrician's Pouch	9 x 10.5 x 6.5"	\$44.00
423-782	ToolBoss Jr.	13 x 7.5 x 14"	\$52.00
423-783	ToolBoss	17 x 10 x 15"	\$68.00

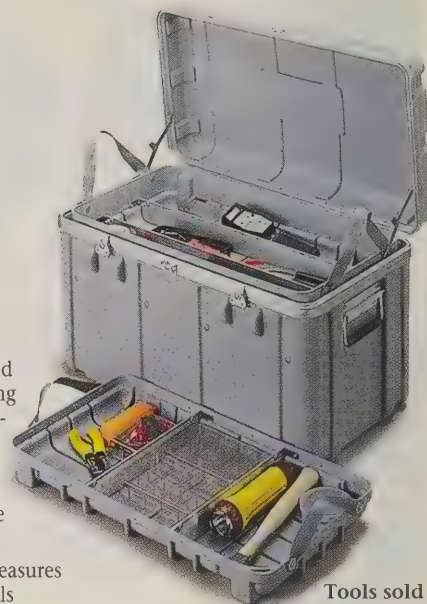
JENSEN®

Rugged-Duty Tool Chest

- Padlockable
- Handles heavy loads

Can be used for tools, parts and equipment storage, or as a shipping container. Heavy-gauge, high density polyethylene. Military style handles and latches. Two removable interlocking trays with web strap handles and interchangeable metal dividers.

Storage space beneath trays measures 24-1/4 x 13-1/4 x 8" for larger tools and equipment.



Tools sold separately

Part No.	Description	SizeLWD	Weight	Price
377-400	Rugged-Duty Tool Chest	25 x 13-1/2 x 15"	23 lbs.	\$319.00



All cases now include new and improved metal latches



Tool Boxes/Chests

- Rugged, commercial grade

Constructed of tough structural, high-impact resistant plastic. Lids are designed for water resistance. All boxes feature molded-in side handles and flush metal latches. **26" Box** has one full tray, an additional handle on lid, and is padlockable. **35" Chest** offers one half-tray and is also padlockable. **36" Chest** has two half-trays and a built-in key lock. (USA)

Part No.	Description	SizeLWD	Price
418-223	Tool Box	26 x 11-1/2 x 11"	\$64.50
700-719	Tool Chest	36 x 18-1/2 x 20"	\$137.25



Utility Tool Bags

Set of three all-purpose bags are ideal for storing and carrying small tools needed for specific tasks. Included are three red nylon bags with zipper closures in the following sizes: 6" x 5", 7" x 6" and 8" x 7".

Part No.	Description	Price
117-354	Set of Three Utility Tool Bags	\$13.35





116-670



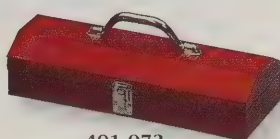
116-671



116-632



401-189



401-073



402-006



116-720



116-721

Plastic and Metal Tool Boxes

Gray plastic boxes are injection molded and have plastic handles. Black conductive box is made from carbon-filled plastic with permanent surface and volume resistivities of 10³-10⁶ and 10³-10⁵ ohm/sq. Red enamel metal boxes come with steel handles and full-length piano hinges. **Part No. 116-670** is not lockable but features six storage compartments with see-through cover built into the box lid. All other boxes are lockable with optional padlocks as noted in table.

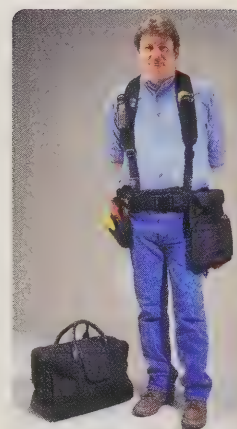
Part No.	Description	Dimensions SizeLWH	Accepts Locks (Ref. Pg. 331)	Price
116-670	Plastic w/Lid Storage	11" x 5-1/2" x 4-1/2"	—	\$5.00
116-671	Plastic w/Lift-Out Tray	13" x 6" x 7"	10, 7	\$7.95
116-632	Conductive w/Lift-Out Tray	14-1/2" x 7-1/4" x 4-1/2"	7, 3	\$33.35
401-073	Metal-No Tray	16" x 6" x 3-1/2"	10, 7	\$13.38
401-189	Metal w/Lift-Out Tray	16" x 7" x 7-1/2"	10, 7	\$14.45
402-006	Metal w/Lift-Out Tray	19" x 7" x 7-1/2"	10, 7	\$19.45
116-720	Metal w/Lift-Out Tray	20" x 8-5/8" x 7-1/2"	10, 7	\$27.75
116-721	Metal w/Two 2.5" Drawers	20" x 8-1/2" x 10-1/4"	10, 7	\$50.70



Tools sold separately

JENSEN® Universal Tool Belt System

Jensen's rugged tool belt system provides comfort and safety with its built in back support and removable suspenders. Unique design distributes weight evenly. Pouches contain 15 pockets providing ample space for tools and test equipment. Two zippered pockets measure 6 x 6" and two flap pockets measure 3 x 4". Belt features four hooks for tool attachment. Tote bag (included) allows for easy transport of belt and tools, and contains three outside pockets for easy access of frequently used items. Made of Ballistic nylon, all pieces are water, dirt and stain resistant. To fit, measure just below navel over clothing.



Part No.	Description	Size	Price
216-148	Medium	33-38"	\$165.00
216-149	Large	39-44"	\$165.00
216-150	Extra Large	45-50"	\$165.00
216-158	Tote Bag Only	—	\$58.00

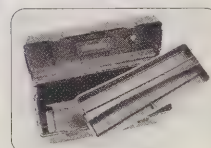


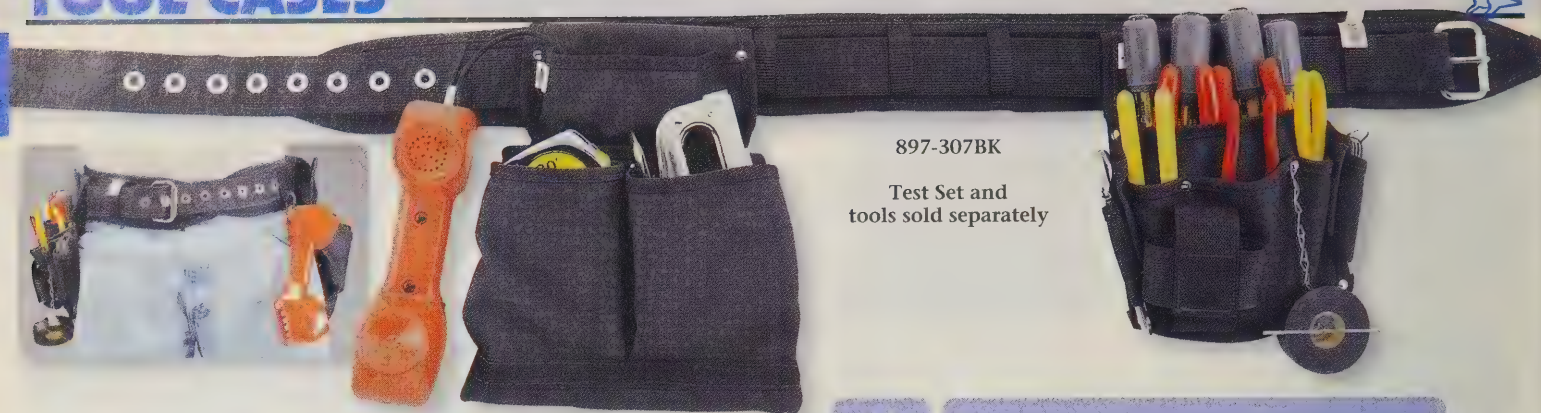
Tool/Storage Boxes

■ Padlockable

High-impact, copolymer construction is dent-proof, non-rusting, non-conductive and resistant to most common chemicals. Each box features lift-out trays, durable Powerlatches™, and tongue-and-groove design to keep water out. (USA)

Part No.	Description	Dimensions (Inches)	Price
352-120	Tool/Storage Box	16-1/2 x 8 x 7-1/4"	\$19.50
352-771	Tool/Storage Box	23 x 10-1/2 x 11-1/2"	\$35.95
352-800	Tool/Storage Box	27-1/2 x 13-3/4 x 14"	\$54.95





897-307BK

Test Set and
tools sold separately



Visit jensentools.com
for individual components

Work Belt Systems

- Lightweight and rugged
- 2X the life of leather

Made from Cordura® Plus nylon, these belt/pouch work systems pass stringent tear strength and puncture resistance tests. Fabricated from first quality U.S. made goods, designed for maximum use and comfort. Choose from two pre-assembled work belt systems. Belts feature metal buckle and eyelets with adjustments in 1-1/2" increments. All components are black. One year limited warranty. To fit, measure just below navel over clothing. (USA)

Telecom Work Belt System (shown)

Telecom Utility Pouch has one small upper pocket, one large main pouch and two smaller forward pouches. Telecom Tool Pouch has large main pocket with tool loops, formed outside pockets, four side tool loops, chain toggle and test meter case. 3" wide **Pro Belt** included.

Part No.	Description	Size	Price
897-307BK	Telecom Work Belt System	Medium (31-35")	\$99.00
897-317BK	Telecom Work Belt System	Large (35-39")	\$99.00

Standard Electrician Work Belt System

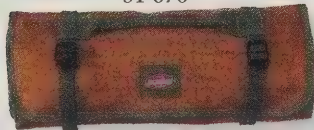
Universal Pouch has large main pocket, upper and front pocket, pencil pocket and hammer holster on both sides. **Electrician Maintenance Pouch** has large main pouch with tool holders, formed front pockets, side tool loops, tape measure clip and chain toggle. 3" wide **Pro Belt** included.

Part No.	Description	Size	Price
897-304BK	Electrician Work Belt System	Medium (31-35")	\$92.00
897-314BK	Electrician Work Belt System	Large (35-39")	\$92.00

Tools sold separately



51-070



Duckwear® Tool and Wrench Rolls

Heavy-duty tool organizers are constructed of 100% cotton duck fabric. 27 x 14" open. **51-070 Tool Roll** features 22 pockets to hold a variety of hand tools. Sockets fit securely in their own pouches. **51-071 Wrench Roll**: (Not shown) features 14 graduated-size pockets for open-end and box-end wrenches.

Part No.	Description	Price
51-070	Duckwear Tool Roll	\$15.30
51-071	Duckwear Wrench Roll	\$15.30



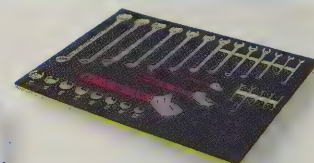
JENSEN®

Two-Color Foam Tool Organizers

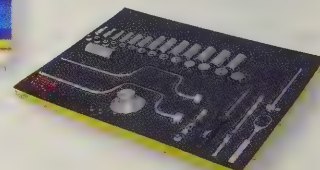
- Do-it-yourself tool control
- Fits tool drawers up to 39 x 26-1/4"

Cost effective alternative to custom foam for portable and smaller fixed applications. Add foam sets easily as your tool control needs expand. High quality closed-cell polyethylene foam resists Skydrol and other industrial solvents. Two-color foam is easily custom cut by the user with included layout sheets. Simply arrange tools on layout sheets, trace outline, transfer to foam and cut. Each foam set includes one 39 x 26-1/4 x 1/2" blue foam sheet with permanent adhesive back; one 39 x 26-1/4 x 1/4" yellow foam sheet; two layout sheets with adhesive back; detailed instructions.

Part No.	Description	Price
277-001	Foam Tool Organizer (1 set)	\$51.00
277-002	Foam Tool Organizer (5 sets)	\$255.00
68-137	Medium-Duty Knife	\$5.35
161-444	Optional 24" Stainless Rule	\$37.00



Tools sold
separately





contact east
JENSEN

Tool Control

**A place for every tool,
and every tool
in its place**

Save time and money!

- Stop wasting time searching for tools
- Stop tool loss, you'll know immediately when a tool is missing

We provide customized solutions that include tools, cases, cabinets, foam and laser etching. Hand tools are high-quality U.S. made with lifetime warranty on most. Just let us know what you want, and we will put together a program that fits your needs.



**Start your Tool Control
program today! Call**
866-353-0032

Kennedy Chests

Top-of-the-line chests for storing, organizing and protecting tools. Chests feature rigid, double-wall side panels and easy glide, full depth drawer slides with spring clips to hold in place. Drawers and top till are wool felt lined. Security is provided by a tamper-proof, full length lid hinge and a key lock that has over 750 key combinations.



7-Drawer Machinists' Chest

Brown wrinkle finish. Chest weighs 28 lbs. and measures 20-1/8"W x 8-9/16"D x 13-5/8"H.

Part No.	Description	Price
116-653	7-Drawer Machinists' Chest	\$229.00

Number of Drawers	Size of Drawers			
	(W	x	D	x H)
4	8-5/8"	x	7-1/2"	x 15/16"
1	8-5/8"	x	7-1/2"	x 2"
1	18-1/4"	x	7-1/2"	x 1-7/16"
1	18-1/4"	x	7-1/2"	x 2-1/4"
Top Till	20"	x	8-3/8"	x 3-1/4"



8-Drawer Machinists' Chest

Brown wrinkle finish. Chest weighs 36 lbs. and measures 26-11/16"W x 8-9/16"D x 13-5/8"H.

Part No.	Description	Price
116-654	8-Drawer Machinists' Chest	\$289.00

Number of Drawers	Size of Drawers			
	(W	x	D	x H)
1	5-1/2"	x	7-1/2"	x 3-1/4"
4	8-5/8"	x	7-1/2"	x 15/16"
1	8-5/8"	x	7-1/2"	x 2"
1	24-3/4"	x	7-1/2"	x 1-7/16"
1	24-3/4"	x	7-1/2"	x 2-1/4"
Top Till	26-1/2"	x	8-3/8"	x 3-1/4"



11-Drawer Machinists' Chest

Brown wrinkle finish. Chest weighs 47 lbs. and measures 26-11/16"W x 8-9/16"D x 18"H.

Part No.	Description	Price
116-655	11-Drawer Machinists' Chest	\$360.00

Number of Drawers	Size of Drawers			
	(W	x	D	x H)
1	5-1/2"	x	7-1/2"	x 3-1/4"
6	8-5/8"	x	7-1/2"	x 15/16"
1	8-5/8"	x	7-1/2"	x 2"
1	24-3/4"	x	7-1/2"	x 1-7/16"
1	24-3/4"	x	7-1/2"	x 2-1/4"
1	4-3/4"	x	7-1/2"	x 3-1/8"
Top Till	26-1/2"	x	8-9/16"	x 3-1/4"

Kennedy Roller Cabinets

Ideal for departments that need mobile tools storage. Roller cabinets have a heavy gauge steel top, the bottom and back panels are securely welded to double-wall side panels giving this cabinet a tight solid fit. Top and bottom panels are embossed with ribs for extra strength and full depth slides provide support and balance for the drawers. The tamper proof internal drawer locking system can't be reached by bolt cutters or hacksaws and cannot be damaged by closing a drawer on an already locked cabinet. All models come with four 5" x 2" shock absorbing soft rubber casters (two fixed, two swivel with toe locks) and a side handle.



5-Drawer Rolling Cabinet

Brown wrinkle finish. Chest weighs 128 lbs. and measures 29"W x 20"D x 35"H.

Part No.	Description	Price
409-624	5 Drawer Rolling Cabinet	\$610.00

Number of Drawers	Size of Drawers			
	(W	x	D	x H)
3	25"	x	18-1/2"	x 1-29/32"
2	25"	x	18-1/2"	x 3-15/16"
Compartment	26-1/8"	x	19-3/4"	x 11-1/4"



7-Drawer Rolling Cabinet

Brown wrinkle finish. Chest weighs 146 lbs. and measures 29"W x 20"D x 35"H.

Part No.	Description	Price
409-623	7 Drawer Rolling Cabinet	\$705.00

Number of Drawers	Size of Drawers			
	(W	x	D	x H)
3	25"	x	18-1/2"	x 1-29/32"
3	25"	x	18-1/2"	x 3-15/16"
1	25"	x	18-1/2"	x 5-31/32"



8-Drawer Rolling Cabinet

Brown wrinkle finish. Chest weighs 146 lbs. and measures 27"W x 18"D x 39"H.

Part No.	Description	Price
409-622	8 Drawer Rolling Cabinet	\$770.00

Number of Drawers	Size of Drawers			
	(W	x	D	x H)
3	23-1/16"	x	16-1/2"	x 1-29/32"
4	23-1/16"	x	16-1/2"	x 3-15/16"
1	23-1/16"	x	16-1/2"	x 5-31/32"



Select
Foam-Filled or
Foam-Lined!



Take-Off Lid Style
(Two Handles)



Attache Style
(One Handle)

JENSEN®

Heavy-Duty Shipping Containers

- Lightweight and Extremely Tough
- Padlockable
- Waterproof (but not submersible)

A safe, economical way to ship electronic devices, computer peripherals, or other sensitive equipment. Super rugged for air, sea or ground transportation. Should a case be dropped, its High Density Polyethylene construction protects your equipment by absorbing some of the energy before it is transferred to the contents. Strong male/female closures and full-length piano hinges. Clear anodized hardware resists corrosion. Quarter-turn military style latches, molded-in ridges. Spring-loaded steel handles. Rubber gasket helps seal out dirt and moisture. Permanent non-chip white finish is impervious to solvents and will withstand temperature variations of -180°F to +180°F. Assorted shipping decals (arrows, delicate unit, handle with care) are included. Padlock eyes accept standard padlock (sold separately).

Foam-Filled containers are filled with layers of dense 2 lb. foam. **Foam-Lined** containers are lined with 2" of foam on all sides. Foam is removable. All sizes also available empty, call for price.

How to Select a Shipping Container

Measure piece(s) of equipment to be shipped. Add 4" to each dimension; length, width and height for foam. If more than one piece is to be shipped in the same container, allow 2" of foam between the items. 2" of 2 lb. density foam will normally provide adequate protection for your equipment.

Shipping container dimensions are wall-to-wall inside. To determine usable space within the foam lined cases, subtract 4" from each dimension given. For example, an 18 x 18 x 18" foam-lined case would be ideal for a 14 x 14 x 14" piece of equipment.

Foam-filled cases are offered in a variety of styles and sizes to suit individual needs and preferences. We can provide custom foam cutting on quantity orders.

Take-Off Lid Style Foam Lined Cases			Inside Dimensions (Empty Case)					Take-Off Lid Style Foam Filled Cases		
Part No.	Weight (lbs)	Price	L	W	D	Bottom Depth	Lid Depth	Part No.	Weight (lbs)	Price
377-184	29	\$325.00	20"	20"	24"	12"	12"	377-184F	33	\$345.00
377-186	31	\$335.00	22"	22"	21"	10.5"	10.5"	377-186F	36	\$355.00
377-187	35	\$325.00	22.5"	18.5"	28"	14"	14"	377-187F	44	\$415.00
377-189	42	\$399.00	24"	24"	30"	15"	15"	377-189F	51	\$470.00
377-192	41	\$405.00	26.5"	26.5"	26"	13"	13"	407-872	54	\$507.60
377-193	55	\$459.20	34"	25.75"	26"	13"	13"	377-193F	63	\$533.15
377-194	35	\$389.10	35"	18"	20"	10"	10"	377-194F	47	\$433.10
377-196	50	\$424.25	37"	22"	28"	14"	14"	377-196F	58	\$523.10
377-197	50	\$408.10	38"	22"	20"	10"	10"	377-197F	56	\$508.20
377-198	68	\$613.10	57"	30"	14"	11"	3"	377-198F	82	\$678.15
377-201	94	\$703.05	57"	30"	22"	11"	11"	377-201F	108	\$818.10

Attache Style Foam Lined Cases			Inside Dimensions (Empty Case)					Attache Style Foam Filled Cases		
Part No.	Weight (lbs)	Price	L	W	D	Bottom Depth	Lid Depth	Part No.	Weight (lbs)	Price
116-746	9	\$181.90	13.9"	8.9"	9"	6.5"	2.5"	116-747	9	\$201.65
116-791	11	\$163.65	17.8"	14.5"	6.4"	3.6"	2.8"	116-792	11	\$179.80
116-793	13	\$166.55	17.8"	14.5"	9"	5"	4"	116-794	14	\$179.15
116-795	13	\$170.25	17.8"	14.5"	12"	8.5"	3.5"	116-796	15	\$193.55
116-803	15	\$197.85	18.8"	18.8"	8"	4"	4"	116-802	15	\$211.55
116-804	15	\$206.15	18.8"	18.8"	10"	6"	4"	116-805	17	\$245.05
116-806	18	\$249.05	18.8"	18.8"	13"	9"	4"	116-807	21	\$247.55
116-800	8	\$172.80	19.1"	8.9"	6"	3.5"	2.5"	116-801	8	\$188.15
116-839	14	\$215.15	21.8"	14.5"	8"	5"	3"	116-840	15	\$233.15
116-844	22	\$323.15	22"	22"	13"	8"	5"	116-845	25	\$346.55
404-241	20	\$233.15	23"	18"	10"	5"	5"	404-237	22	\$256.55
116-855	16	\$215.15	23.75"	15.25"	11"	5.5"	5.5"	116-856	17	\$259.05
116-891	21	\$251.15	27"	19"	10"	5"	5"	116-892	24	\$265.55
404-228	21	\$260.15	27"	19"	12"	7"	5"	404-234	26	\$283.55
404-227	22	\$269.15	27"	19"	14"	8"	6"	404-233	26	\$301.55
404-226	23	\$282.45	27"	19"	16"	8"	8"	404-232	27	\$310.55
404-235	23	\$300.75	27.25"	24.25"	7"	3.5"	3.5"	116-895	25	\$332.15
404-240	20	\$251.15	28.9"	14.3"	10"	6"	5"	404-236	22	\$269.15
116-901	20	\$251.15	28.9"	17.3"	11"	5.5"	5.5"	116-902	23	\$299.05



SHIPPING CASES

Footlocker Style Foam Lined Cases			Inside Dimensions (Empty Case)						Footlocker Style Foam Filled Cases		
Part No.	Weight (lbs)	Price	L	W	D	Bottom Depth	Lid Depth		Part No.	Weight (lbs)	Price
116-797	19	\$253.50	17.8"	14.5"	19"	17"	2"		116-798	22	\$287.15
404-239	17	\$224.15	20"	14"	10"	5"	5"		404-238	18	\$238.55
116-814	15	\$224.15	20.5"	12.8"	11.5"	9"	2.5"		116-815	16	\$233.15
116-833	13	\$218.50	21.1"	10.6"	12"	9.5"	2.5"		116-834	15	\$229.25
116-850	24	\$273.30	23.5"	18.5"	17.6"	14"	3.5"		116-851	29	\$314.15
-	-	-	24.1"	9"	14.25"	12.5"	1.75"		116-854	14	\$247.55
116-897	21	\$269.15	28.9"	14.3"	14"	11"	3"		116-898	24	\$301.55
116-899	23	\$273.30	28.9"	14.3"	17"	12"	5"		116-900	27	\$310.55
116-911	33	\$377.10	34"	25.8"	16"	13"	3"		116-912	50	\$475.00
116-915	24	\$296.15	35.1"	18"	10"	5"	5"		116-916	25	\$319.55
116-917	31	\$350.15	35.1"	18"	15"	10"	5"		116-918	35	\$413.15
116-919	35	\$350.15	35.1"	18"	20"	10"	10"		116-920	47	\$413.15
116-925	40	\$359.15	37"	22"	19"	14"	5"		116-926	48	\$436.55
116-927	37	\$350.15	38"	22"	12"	10"	2"		116-928	40	\$391.55
116-931	30	\$399.05	41"	14"	16"	14"	2"		116-932	35	\$386.10
116-940	68	\$620.65	57"	30"	14"	11"	3"		116-941	82	\$674.15

Square Box Style Foam Lined Cases			Inside Dimensions (Empty Case)						Square Box Style Foam Filled Cases		
Part No.	Weight (lbs)	Price	L	W	D	Bottom Depth	Lid Depth		Part No.	Weight (lbs)	Price
116-749	11	\$181.90	14"	14"	9"	6"	3"		116-750	11	\$201.65
116-760	11	\$206.15	14.5"	13.1"	12"	10"	2"		116-761	11	\$224.40
116-771	15	\$206.15	15.75"	14.75"	13.5"	6.75"	6.75"		116-772	16	\$219.65
116-808	21	\$260.15	18.8"	18.8"	18"	14"	4"		116-809	25	\$283.55
116-810	23	\$269.15	18.8"	18.8"	21"	15"	6"		116-811	26	\$298.10
116-824	21	\$309.90	20"	20"	16"	8"	8"		116-825	25	\$328.55
116-826	24	\$319.00	20"	20"	20"	12"	8"		116-827	29	\$337.55
116-828	29	\$328.15	20"	20"	24"	12"	12"		116-829	33	\$355.55
116-846	25	\$332.15	22"	22"	17.5"	10.5"	7"		116-847	30	\$359.15
116-848	31	\$341.15	22"	22"	21"	10.5"	10.5"		116-849	36	\$377.15
116-864	32	\$314.00	24"	24"	17.5"	15"	2.5"		116-865	37	\$395.05
116-866	33	\$332.15	24"	24"	21.5"	15"	6.75"		116-867	40	\$415.05
116-868	42	\$377.15	24"	24"	30"	15"	15"		116-869	51	\$449.15
116-881	33	\$359.15	26.5"	26.5"	16"	8"	8"		116-882	40	\$422.15
116-883	37	\$368.15	26.5"	26.5"	20"	12"	8"		116-884	46	\$489.05
116-885	39	\$377.15	26.5"	26.5"	23"	13"	10"		116-886	49	\$449.15
116-887	41	\$395.15	26.5"	26.5"	26"	13"	13"		116-888	54	\$467.15

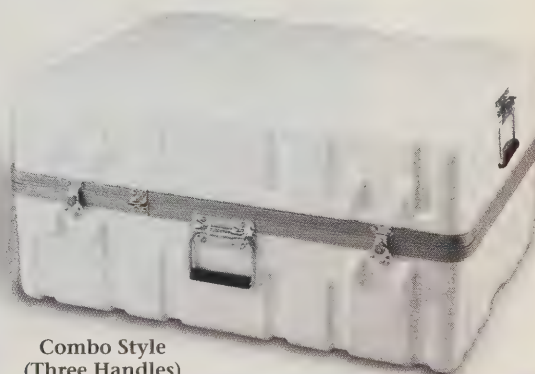
Combo Style Foam Lined Cases			Inside Dimensions (Empty Case)						Combo Style Foam Filled Cases		
Part No.	Weight (lbs)	Price	L	W	D	Bottom Depth	Lid Depth		Part No.	Weight (lbs)	Price
116-769	10	\$196.55	16"	9"	9"	6"	3"		116-770	10	\$201.65
116-781	11	\$205.70	17.9"	9.8"	12.3"	10.5"	1.8"		116-782	12	\$215.15
116-820	12	\$291.60	20"	20"	18"	5"	5"		116-821	20	\$349.05
116-822	20	\$300.75	20"	20"	13"	8"	5"		116-823	23	\$323.15
116-816	17	\$256.55	20.5"	14.5"	15"	12"	3"		116-817	21	\$269.15
116-818	20	\$260.50	20.5"	14.5"	19"	15"	4"		116-819	23	\$283.55
116-842	21	\$314.15	22"	22"	10"	5"	5"		116-843	22	\$337.50
116-860	23	\$273.30	24"	24"	10"	7.3"	2.7"		116-861	25	\$292.50
116-862	24	\$287.15	24"	24"	13.5"	6.7"	6.8"		116-863	29	\$345.05
116-875	10	\$235.05	25"	13.4"	11"	5.5"	5.5"		116-876	19	\$249.30
116-877	21	\$260.15	25"	13.4"	15.3"	12.5"	2.8"		116-878	23	\$283.55
116-879	22	\$269.15	25"	13.4"	18"	13"	5"		116-880	25	\$311.55
404-225	31	\$332.15	30"	23"	12"	7"	5"		404-231	32	\$355.55
404-224	42	\$341.15	30"	23"	14"	8"	6"		404-230	42	\$364.55
404-223	43	\$350.15	30"	23"	16"	8"	8"		404-229	45	\$373.50
116-933	36	\$456.00	46"	23"	11"	5.5"	5.5"		116-934	43	\$539.00



Footlocker Style
(Two Handles)



Square-Shaped Style
(Two Handles)



Combo Style
(Three Handles)

Wheeled versions now available!

Select models are available with
heavy-duty ball-bearing wheels.
(See page 64)



Master Lock.

Secure
Your Case



Part No.	Description	Price
40-175	Combination Lock	\$19.35



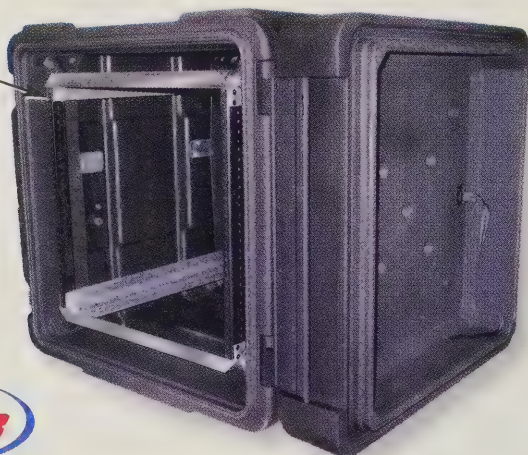
Rack-Mount Cases

- Rugged
- Lifetime factory warranty
- Lightweight
- Stackable

Rack-Mount Cases provide easy transport/use of rack mounted electronic equipment in the field. Ribs and bumpers absorb shock, vibration and protect the case hardware. Tongue-and-groove aluminum valance with O-ring seal helps to protect equipment against moisture and dirt. Front and rear mounting rails. Mounting kit included. Rackable depth is 18.5" (front rail to rear door). Cases are 19" deep (ID) with end-caps. Lifetime factory warranty.

Part No.	Description	Inside Dimensions L x W x D	Price
117-283	4 Space	7 x 19 x 15-3/4"	\$130.00
117-286	6 Space	10-1/2 x 19 x 15-3/4"	\$150.00
117-288	8 Space	14 x 19 x 15-3/4"	\$170.00
356-100	10 Space	17-1/2 x 19 x 15-3/4"	\$190.00
117-293	12 Space	21 x 19 x 15-3/4"	\$205.00
418-894	Caster Kit	—	\$85.00

Shock-Mount

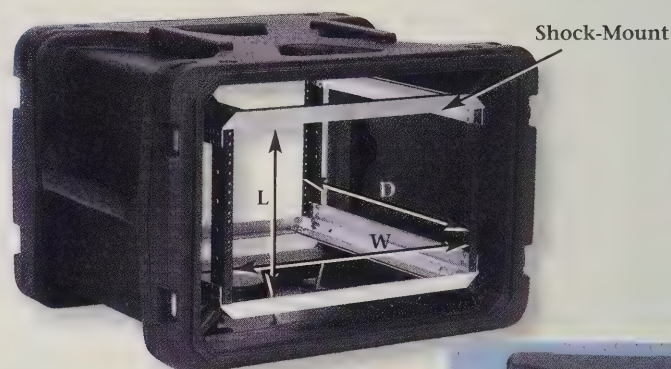


Shock-Mount Cases (Industrial)

- Maximum protection
- Lifetime factory warranty
- Rotationally molded for super strength

These are the strongest Shock-Mount cases on the market and offer maximum protection. Cases are airtight/watertight and feature an "H" shaped rigid frame, automatic pressure relief valve and field replaceable latches. Compound hinge system allows the lid to swing out and completely around to lie flat against the main body of the case (see photo), or you can go lid-less with an effortless lift motion. Cases stack securely with wheels on or off. This is the only shock-mount case that will open front and back while stacked. Rackable depth is 28.5" (front rail to rear door). Cases are 33" deep (ID) with end caps attached. Caster kit included.

Part No.	Description	Inside Dimensions L x W x D	Price
423-730	10 Space	17-3/4 x 19 x 24"	\$999.00
423-731	12 Space	20 x 19 x 24"	\$1,075.00
423-732	14 Space	24-1/2 x 19 x 24"	\$1,265.00
423-733	16 Space	28 x 19 x 24"	\$1,335.00



Shock-Mount



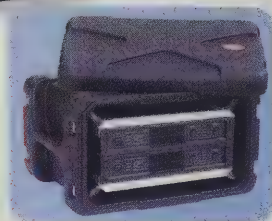
New

Shock-Mount Cases

- Stackable
- Lifetime factory warranty

Rotationally molded tough shell is strong and durable. These cases offer the portability of the Rack-Mount cases plus an internal frame mounted on shock-absorbers on all eight corners. These cases are designed to control the effects of shock and vibration on three axes. The space around the internal frame provides natural air conditioning. Airtight and watertight. Rackable depth is 23.5" (front rail to rear door). Cases are 26.5" deep (ID) with end caps attached. Recessed heavy-duty twist latches allow cases to meet most ATA and military specifications.

Part No.	Description	Inside Dimensions L x W x D	Price
423-790	6 Space	10-1/2 x 19 x 20"	\$385.00
423-728	8 Space	14 x 19 x 20"	\$410.00
423-729	10 Space	17-1/2 x 19 x 20"	\$445.00
423-787	12 Space	20 x 19 x 20"	\$475.00
423-788	14 Space	24-1/2 x 19 x 20"	\$495.00
423-789	16 Space	28 x 19 x 20"	\$505.00
418-891	Caster Kit	—	\$130.00

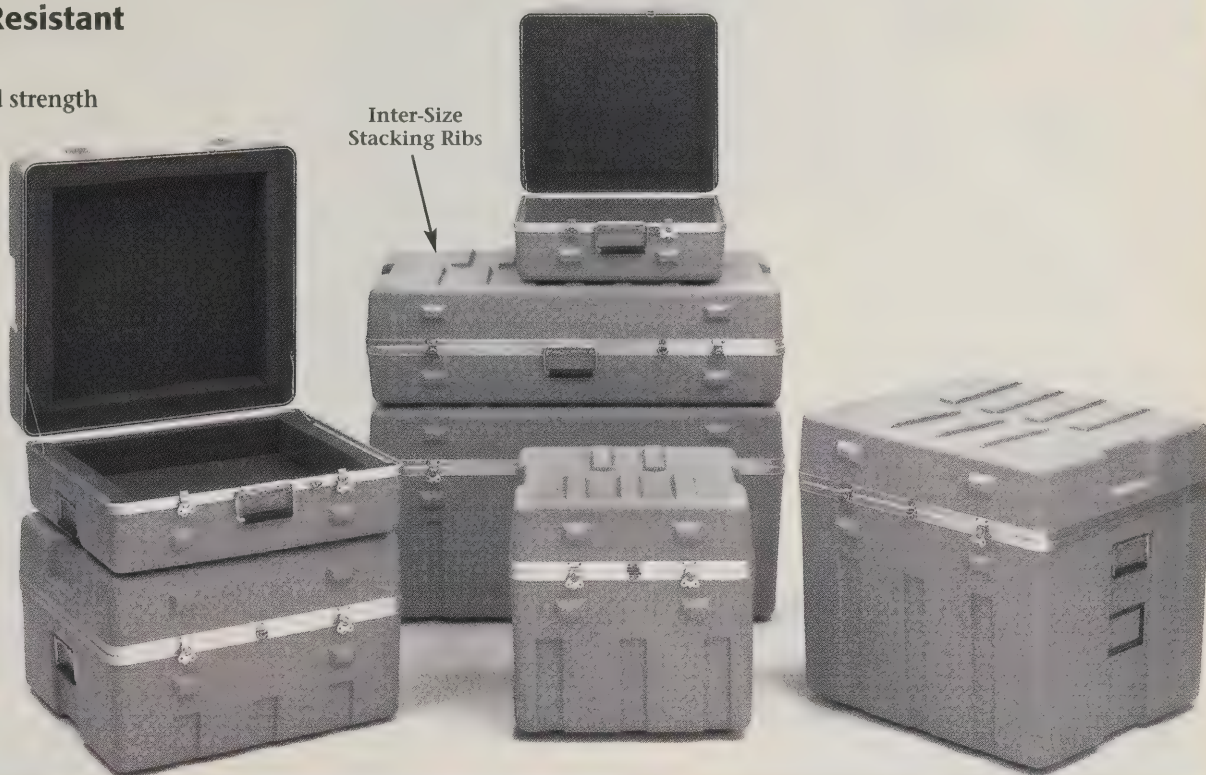




Moisture and Dust Resistant Shipping Containers

- T-Beam valance for added strength
- Foam-filled or foam-lined

Constructed of high density polyethylene with 1/4 turn latches for padlocks, continuous piano hinge and recessed spring-loaded military style handles. Universal stacking feature allows any size case to be stacked on top of another. Unique T-beam valance protects against damage during transit. Molded bumpers protect latches and hinges. Includes recessed 3" x 5" shipping label holders and a rubber gasket to resist moisture and dust. Various sizes to match your shipping needs. Foam is removable and layered for easy cutting to customize the cases to your equipment. Foam-lined versions have 2" of foam on all sides, top and bottom. (USA)



Foam-Lined			Inside Dimensions		Foam-Filled		
Part No.	Weight	Each	L x W x D	Bottom/Lid	Part No.	Weight	Each
54-750	14 lbs.	\$198.00	18 x 18 x 10"	5 + 5"	54-760	16 lbs.	\$208.00
54-751	17 lbs.	\$225.00	18 x 18 x 18"	13 + 5"	54-761	21 lbs.	\$258.00
54-752	30 lbs.	\$262.00	20 x 20 x 20"	15 + 5"	54-762	33 lbs.	\$308.00
54-753	23 lbs.	\$252.00	24 x 24 x 10"	5 + 5"	54-763	26 lbs.	\$278.00
54-754	25 lbs.	\$256.00	24 x 24 x 14"	9 + 5"	54-764	28 lbs.	\$298.00
54-755	27 lbs.	\$278.00	24 x 24 x 17"	12 + 5"	54-765	30 lbs.	\$353.00
54-756	34 lbs.	\$303.00	24 x 24 x 23"	18 + 5"	54-766	41 lbs.	\$393.00



Rail-Pack Utility Cases

- Built-in wheels and handle
- Factory lifetime warranty

These cases feature built-in wheels and recessed snap-down handles. Built to haul awkward, hard to manage cargo with ease. 423-724 is fitted with four straps with spring loaded reverse-cinch buckles for holding items securely in place. Crafted to exceed the ATA (Airline Transportation Association) specification 300, category 1.

Part No.	Description	L x W x D (ID)	Weight	Price
423-725	Rail-Pack Case	49-3/4 x 20 x 13-3/4"	29	\$210.00
423-724	Rail-Pack Case	48-1/4 x 16 x 12-3/8"	24	\$205.00
423-723	Rail-Pack Case	36-3/4 x 12 x 8-1/4"	14	\$150.00





Heavy-Duty Shipping Containers with Wheels

- Lightweight and extremely tough
- Padlockable
- Waterproof (but not submersible)

A safe, economical way to ship electronic devices, computer peripherals, or other sensitive equipment. Super rugged for air, sea or ground transportation. Should a case be dropped, its High Density Polyethylene construction protects your equipment by absorbing some of the energy before it is transferred to the contents. Strong male/female closures and full-length piano hinges. Clear anodized hardware resists corrosion. Quarter-turn military style latches, molded-in ridges. Spring-loaded steel handles. Rubber gasket helps seal out dirt and moisture. Permanent non-chip white finish is impervious to solvents and will withstand temperature variations of -180°F to +180°F. Assorted shipping decals (arrows, delicate unit, handle with care) are included. Padlock eyes accept standard padlock (sold separately).

Foam-Filled containers are filled with layers of dense 2 lb. foam. Foam-Lined containers are lined with 2" of foam on all sides. Foam is removable. All sizes also available empty, call for price.

See pages 60-61 for case style images.



Built-in Wheels

Master Lock.



Secure Your Case



Part No.	Description	Price
40-175	Combination Lock	\$19.35

Foam Lined Cases			Inside Dimensions (Empty Case)							Foam Filled Cases		
Part No.	Shipping Weight (lbs)	Price	L	W	D	Bottom Depth	Lid Depth	# of Handles		Part No.	Shipping Weight (lbs)	Price
Attache Style												
405-662	22	\$278.15	27"	19"	10"	5"	5"	1		405-661	25	\$278.15
405-664	23	\$287.15	27"	19"	12"	5"	4"	2		405-663	26	\$301.55
405-665	24	\$296.15	27"	19"	14"	8"	6"	2		405-666	27	\$328.00
405-667	25	\$305.15	27"	19"	16"	8"	8"	2		405-668	28	\$319.55
405-670	21	\$278.15	28-7/8"	17-1/4"	11"	5-1/2"	5-1/2"	1		405-669	24	\$310.55
Combo Style												
405-634	22	\$341.85	22"	22"	10"	5"	5"	3		405-633	23	\$355.55
405-636	23	\$350.15	22"	22"	13"	8"	5"	3		405-635	26	\$364.55
405-644	24	\$296.15	24"	24"	10"	7-1/4"	2-3/4"	3		405-643	26	\$314.15
405-646	25	\$305.15	24"	24"	13-1/2"	6-3/4"	6-3/4"	3		405-645	30	\$323.15
405-767	31	\$377.15	30"	23"	12"	7"	5"	3		405-766	32	\$395.15
405-769	42	\$386.15	30"	23"	14"	8"	6"	3		405-768	42	\$404.15
405-771	43	\$395.15	30"	23"	16"	8"	8"	3		405-770	45	\$413.15
405-674	25	\$323.15	35-1/8"	18"	10"	5"	5"	3		405-673	26	\$341.15
405-680	25	\$350.15	37"	22"	10"	5"	5"	3		405-679	29	\$377.15
Footlocker Style												
405-642	26	\$305.15	23-1/2"	18-1/2"	17-1/2"	14"	3-1/2"	2		405-641	30	\$350.15
405-672	44	\$422.15	34"	25-3/4"	16"	13"	3"	2		405-671	51	\$494.15
405-676	32	\$341.15	35-1/8"	18"	15"	10"	5"	2		405-675	36	\$431.15
405-678	36	\$386.15	35-1/8"	18"	20"	10"	10"	2		405-677	48	\$431.15
405-681	41	\$395.15	37"	22"	19"	14"	5"	2		405-682	49	\$449.00
405-683	38	\$386.15	38"	22"	12"	10"	2"	2		405-684	41	\$429.00
405-686	31	\$429.00	41"	14"	16"	14"	2"	2		405-685	36	\$459.00
429-446	41	\$535.30	46"	23"	11"	5-1/2"	5-1/2"	2		423-780	46	\$603.60
Square-Shaped Style												
405-638	26	\$359.15	22"	22"	17-1/2"	10-1/2"	7"	2		405-637	31	\$373.55
405-640	32	\$368.15	22"	22"	21"	10 1/2"	10-1/2"	2		405-639	37	\$382.55
405-648	33	\$368.15	24"	24"	17-1/2"	15-1/2"	2-1/2"	2		405-647	38	\$404.15
405-650	34	\$377.15	24"	24"	21-3/4"	15"	6-3/4"	2		405-649	41	\$413.15
405-652	43	\$422.15	24"	24"	30"	15"	15"	2		405-651	52	\$494.15
405-654	34	\$422.15	26-1/2"	26-1/2"	16"	8"	8"	2		405-653	41	\$449.15
405-656	38	\$428.70	26-1/2"	26-1/2"	20"	12"	8"	2		405-655	47	\$467.15
405-658	40	\$440.15	26-1/2"	26-1/2"	23"	13"	10"	2		405-657	50	\$476.15
405-660	42	\$449.15	26-1/2"	26-1/2"	26"	13"	13"	2		405-659	55	\$485.15

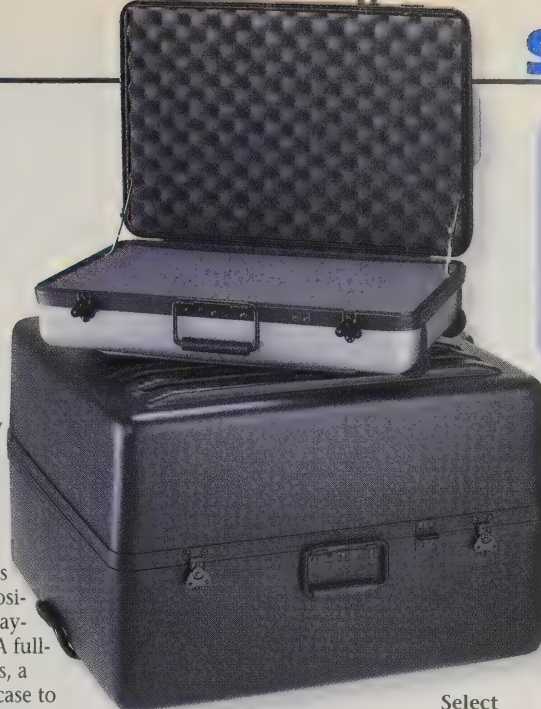


Deluxe Foam Filled Shipping Cases with Wheels

Allows One Person to Easily Handle Heavy Loads

- Lightweight and rugged
- Recessed rubber wheels and telescoping handle
- Choice of Black or Silver finish

These cases are lightweight yet extra tough for reliable convenience and long life. Made from high-density polyethylene, these cases flex to absorb impact energy before it is transferred to the contents, making them ideal cases for transporting any type of sensitive and valuable equipment. These cases feature two recessed ball bearing rubber wheels on the bottom corners to ensure maximum stability. A telescoping handle mounts flush to the case and has a Velcro® strap to keep it in position when not in use. Each case is filled with 1" and 2" layers of foam with a piece of convoluted foam in the lid. A full-length heavy-duty piano hinge, two quarter-turn latches, a spring-loaded handle and a padlock loop complete the case to ensure safe transit of its contents. Cases have coated black frames and black hardware. Foam cutting knife included. All cases are available empty. 1-year warranty.



Select
Foam-Filled or
Foam-Lined!



Black		Inside Dimensions						Silver	
Part No.	Price	L	W	D	Bottom Depth	Lid Height	Weight (lbs)	Part No.	Price
401-664	\$251.15	21-3/4"	14-1/2"	6"	3.25"	2.75"	14	401-663	\$251.15
401-662	\$260.15	21-3/4"	14-1/2"	8"	5"	3"	15	401-661	\$260.15
401-668	\$269.15	21-3/4"	14-1/2"	10"	6"	4"	16	401-667	\$269.15
401-666	\$278.15	21-3/4"	14-1/2"	12"	6"	6"	17	401-665	\$278.15
116-977	\$260.10	23-1/2"	17-3/8"	6"	3"	3"	21	401-659	\$260.15
116-981	\$278.15	23-1/2"	17-3/8"	10"	5"	5"	23	401-660	\$278.15
116-983	\$323.15	23-3/4"	20-5/8"	6"	3"	3"	22	401-653	\$323.15
116-985	\$324.50	23-3/4"	20-5/8"	8"	5"	3"	24	401-652	\$324.50
116-987	\$369.05	23-3/4"	20-5/8"	10"	6"	4"	26	401-658	\$369.05
116-989	\$341.15	23-3/4"	20-5/8"	12"	8"	4"	28	401-657	\$341.15
116-991	\$350.15	23-3/4"	20-5/8"	14"	8"	6"	29	401-656	\$350.15
401-655	\$359.15	23-3/4"	20-5/8"	16"	8"	8"	30	401-654	\$359.15
116-993	\$296.15	25-13/16"	17-1/2"	6"	3"	3"	22	401-695	\$296.15
116-995	\$305.15	25-13/16"	17-1/2"	8"	5"	3"	23	401-694	\$305.15
116-997	\$314.15	25-13/16"	17-1/2"	10"	5"	5"	24	401-651	\$314.15
116-999	\$323.15	25-13/16"	17-1/2"	12"	8"	4"	25	401-649	\$323.15
117-001	\$332.15	25-13/16"	17-1/2"	14"	8"	6"	26	401-647	\$332.15
404-222	\$341.15	25-13/16"	17-1/2"	16"	8"	8"	27	404-221	\$341.15
401-763	\$386.15	25-3/4"	25-3/4"	8"	5"	3"	30	401-685	\$386.15
401-693	\$395.15	25-3/4"	25-3/4"	10"	6"	4"	31	401-692	\$395.15
401-691	\$404.15	25-3/4"	25-3/4"	12"	8"	4"	32	401-690	\$404.15
401-689	\$413.10	25-3/4"	25-3/4"	14"	8"	6"	34	401-688	\$413.10
401-687	\$422.15	25-3/4"	25-3/4"	16"	8"	8"	35	401-686	\$422.15
401-684	\$332.15	27"	19"	10"	6"	4"	23	401-683	\$332.15
401-682	\$341.15	27"	19"	12"	8"	4"	25	401-681	\$341.15
401-680	\$350.15	27"	19"	14"	8"	6"	26	401-679	\$350.15
401-678	\$359.15	27"	19"	16"	8"	8"	27	401-677	\$359.15
407-164	\$440.90	30"	23"	10"	6"	4"	30	407-165	\$440.90
407-166	\$450.00	30"	23"	12"	8"	4"	32	407-167	\$450.00
407-168	\$460.10	30"	23"	14"	8"	6"	34	407-169	\$460.10
407-170	\$469.20	30"	23"	16"	8"	8"	36	407-171	\$469.20
401-676	\$431.15	30"	30"	10"	6"	4"	37	401-675	\$431.15
401-674	\$440.15	30"	30"	12"	8"	4"	39	401-673	\$440.15
401-672	\$449.15	30"	30"	14"	8"	6"	41	401-671	\$449.15
401-670	\$458.10	30"	30"	16"	8"	8"	43	401-669	\$458.30

Master Lock.



Secure Your Case

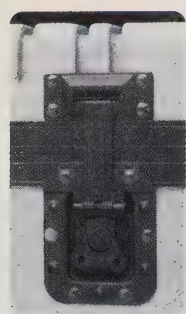
Part No.	Description	Price
40-175	Combination Lock	\$19.35

How to Select a Shipping Container

Measure piece(s) of equipment to be shipped. Add 4" to each dimension; length, width and height for foam. If more than one piece is to be shipped in the same container, allow 2" of foam between the items. 2" of 2 lb. density foam will normally provide adequate protection for your equipment.

Shipping container dimensions are wall-to-wall inside. To determine usable space within the foam lined cases, subtract 4" from each dimension given. For example, an 18 x 18 x 18" foam-lined case would be ideal for a 14 x 14 x 14" piece of equipment.

Foam-filled cases are offered in a variety of styles and sizes to suit individual needs and preferences. We can provide custom foam cutting on quantity orders.



JENSEN®

Roto-Rugged™ Wheeled Foam-Filled Cases

- Rotationally molded for strength
- Recessed military-style latches
- 4 wheels and telescoping handle

Rotationally molded construction provides extra strength and durability. Uniform wall thickness and extra-thick corners resist impact damage. Telescoping handle extends to 41" and stores flush in case when not in use. Features include black powder-coated tongue-and-groove valance that resists

scratches, recessed military-style quarter-turn latches, ball-bearing wheels, full-length piano hinge, spring-loaded handles and padlock hasp.

Each case is filled with layers of 2" foam. Foam cutting knife is included. Choose between black, charcoal and green exterior colors. One year warranty.

Black	Charcoal	Green	L x W x D (ID)	Bottom Depth	Lid Depth	Weight	Price
377-881	—	—	17-3/4 x 14-1/2 x 8"	5-1/2"	2-1/2"	16 lbs.	\$290.00
377-882	415-406	423-701	17-3/4 x 14-1/2 x 10"	7"	3"	19 lbs.	\$312.00
377-883	415-227	423-702	17-3/4 x 14-1/2 x 12"	9"	3"	20 lbs.	\$322.00
415-407	415-409	423-703	24-7/8" x 14-1/2" x 9"	6-1/2"	2-1/2"	21 lbs.	\$341.05
415-408	415-410	423-704	24-7/8" x 14-1/2" x 10"	7-1/2"	2-1/2"	22 lbs.	\$357.00
407-422	415-411	423-705	24-7/8" x 14-1/2" x 12"	9"	3"	23 lbs.	\$360.05
407-424	415-412	423-706	24-7/8" x 14-1/2" x 14"	11"	3"	25 lbs.	\$370.00
407-423	415-413	423-707	24-7/8" x 14-1/2" x 16"	13"	3"	27 lbs.	\$380.05
407-425	415-414	423-708	24-7/8" x 14-1/2" x 18"	15"	3"	29 lbs.	\$390.05
415-415	415-416	423-709	25" x 22" x 12"	9"	3"	30 lbs.	\$418.80
415-417	415-418	423-710	25" x 22" x 14"	11"	3"	32 lbs.	\$438.80
415-419	415-420	423-711	25" x 22" x 16"	13"	3"	33 lbs.	\$457.80
415-421	415-422	423-712	25" x 22" x 18"	15"	3"	35 lbs.	\$477.80
415-423	415-424	423-713	28" x 22" x 12"	9"	3"	34 lbs.	\$428.80
415-425	415-426	423-714	28" x 22" x 14"	11"	3"	36 lbs.	\$447.80
415-427	415-428	423-715	28" x 22" x 16"	13"	3"	38 lbs.	\$467.80
415-429	415-430	423-716	28" x 22" x 18"	15"	3"	39 lbs.	\$486.80
415-431	415-432	423-717	28" x 22" x 20"	17"	3"	41 lbs.	\$506.80
415-433	415-434	423-718	37" x 25" x 12"	9"	3"	48 lbs.	\$525.80
415-435	415-436	423-719	37" x 25" x 14"	11"	3"	50 lbs.	\$535.80
415-437	415-438	423-720	37" x 25" x 16"	13"	3"	51 lbs.	\$545.80
415-439	415-440	423-721	37" x 25" x 18"	15"	3"	53 lbs.	\$555.80
415-441	415-442	423-722	37" x 25" x 20"	17"	3"	56 lbs.	\$564.80
377-177	—	—	Replacement wheel assembly for cases with 28" length & smaller				\$9.00
418-893	—	—	Replacement wheel assembly for cases with 37" length				\$10.00



platt
Professional Cases for Business and Industry



Heavy-Duty ATA Cases with Wheels and Telescoping Handle

- ATA 300 compliant
- Spring loaded handle and recessed latches for added durability

Heavy-duty polyethylene ATA cases with recessed hardware. The exterior shell is tough impact resistant HMW polyethylene. Heavy-duty aluminum rim and gasket, twist-draw latches, combination lock, full-length piano hinge and spring loaded handle. Filled with pre-cut foam.

Cases include wheels and telescoping handle for convenient transportation. Limited lifetime factory warranty. (USA)

Part No.	Description	Inside Dimensions L x W x H	Bottom	Weight	Price
373-220W	ATA Heavy-Duty Case	19-5/8" x 13-3/4" x 9"	5/4"	14 lbs.	\$306.00
373-229W	ATA Heavy-Duty Case	21-1/2" x 15-1/2" x 9"	5/4"	18 lbs.	\$315.00
419-636W	ATA Heavy-Duty Case	22" x 22" x 14"	10 x 4"	27 lbs.	\$400.00
373-013W	ATA Heavy-Duty Case	23-1/2" x 15" x 11"	5/6"	18 lbs.	\$324.00
373-012W	ATA Heavy-Duty Case	23-3/4" x 17-3/4" x 11"	5-1/2 x 5-1/2"	22 lbs.	\$352.00
419-633W	ATA Heavy-Duty Case	26" x 16" x 13"	10 x 3"	21 lbs.	\$372.00
419-634W	ATA Heavy-Duty Case	26" x 16" x 17"	12 x 5"	26 lbs.	\$406.00
373-011W	ATA Heavy-Duty Case	27-1/2" x 19-1/2" x 11"	5-1/2 x 5-1/2"	27 lbs.	\$383.00
373-014W	ATA Heavy-Duty Case	25" x 23" x 16"	7/9"	30 lbs.	\$440.00
373-015W	ATA Heavy-Duty Case	31-3/4" x 22" x 11"	5-1/2 x 5-1/2"	34 lbs.	\$412.00



JENSEN
by 

Medium-Duty Pull Handle Shipping Cases on Wheels

- Choose empty, lined or filled
- ATA 300 compliant

Jensen's line of medium-duty cases feature wheels and telescoping handle for easy transport. Shell is constructed of HDPE polyethylene and features molded-in bumpers and ribs to absorb shock and protect hardware. The tongue & groove aluminum valance adds further styling and strength, and is fitted with a neoprene O-ring gasket to provide a tight, moisture-resistant seal. Locking latches are field replaceable. Limited lifetime factory warranty.

Empty			Foam-Lined			Foam-Filled			Dimensions (ID)	
Part No.	Weight	Price Each	Part No.	Weight	Price Each	Part No.	Weight	Price Each	L x W x D	Bottom/Lid
356-700	12 lbs.	\$178.00	356-700L	15 lbs.	\$202.00	356-700F	16 lbs.	\$217.00	18 x 18 x 13"	8 + 5"
356-710	15 lbs.	\$188.00	356-710L	17 lbs.	\$208.00	356-710F	18 lbs.	\$218.00	19-3/8 x 14 x 10"	6 + 4"
356-720	19 lbs.	\$198.00	356-720L	21 lbs.	\$218.00	356-720F	22 lbs.	\$228.00	22 x 18 x 8"	4-1/2 + 3-1/2"
356-770	22 lbs.	\$258.00	356-770L	24 lbs.	\$288.00	356-770F	26 lbs.	\$308.00	24 x 17 x 14-1/2"	9-1/4 + 5-1/4"
356-730	24 lbs.	\$298.00	356-730L	26 lbs.	\$332.00	356-730F	29 lbs.	\$367.00	25 x 23 x 14"	8 + 6"
356-740	31 lbs.	\$308.00	356-740L	33 lbs.	\$348.00	356-740F	36 lbs.	\$400.00	29 x 21-1/2 x 17"	9 + 8"
356-750	42 lbs.	\$358.00	356-750L	45 lbs.	\$408.00	356-750F	48 lbs.	\$461.00	30 x 25 x 15"	7-1/2 + 7-1/2"
356-760	43 lbs.	\$378.00	356-760L	48 lbs.	\$438.00	356-760F	55 lbs.	\$513.00	34 x 26 x 18-3/4"	11 + 7-3/4"
356-780	45 lbs.	\$388.00	356-780L	50 lbs.	\$448.00	356-780F	57 lbs.	\$528.00	36-1/2 x 21-1/2 x 19"	11 + 8"



Combination Lock by Pelican®

Part No.	Description	Price
432-001	Combination Lock	\$10.25



415-066

Airtight and Watertight Rollaway Foam-Filled Case

- Pressure purge valve
- Full 1/4" thick walls
- Factory lifetime warranty

These rugged cases are built "Pelican-tough" and incorporate a variety of exclusive features such as three fold-down handles, locking retractable handle that extends to 37", purge valve and two "quiet roll" wheels (418-904 has four wheels). Pick-n-pluck foam in bottom and convoluted foam in lid. Holds loads up to 50 lbs. Outside measures: 24-5/8 x 19-1/2 x 12" (415-205), 24-5/8 x 19-3/8 x 14" (415-066), 31-1/2 x 20-1/2 x 11-5/16" (116-773), 31-1/2 x 22-7/8 x 18-7/8" (418-904). USA.

Part No.	Model	Description	L x W x D (ID)	Weight	Price
415-205	1610	Rollaway Case	22-3/16 x 17-1/8 x 10-9/16"	23	\$230.50
415-066	1620	Rollaway Case	22 x 17 x 12-9/16"	26	\$256.00
116-773	1650	Rollaway Case	28-3/4" x 17-7/8" x 10-1/2"	25	\$265.00
418-904	1660	Rollaway Case	29-1/8 x 20-11/16 x 17-5/8"	43	\$345.75



423-842

Airtight & Watertight Foam-Filled "Cube" Cases

- Automatic purge valve
- Full 1/4" thick walls
- Lifetime factory warranty

Extra deep cases with gorilla-sized handles: a man on each side with a double hand hold can lift those heavy loads. Features include easy-open Double-Throw latches, water and dust proof neoprene o-ring seal, padlock loop and automatic Purge Valve. It's a box that breathes, but can't get wet inside. Filled with layers of pick-n-pluck foam in the bottom and convoluted foam in the lid.

Optional casters snap into place. Cases are stackable, so you can put casters on the bottom cube and you've got a rolling tower. Caster kit includes four removable casters with mounting plates, pull strap and carry bag.

Part No.	Description	L x W x D (ID)	Weight	Price
423-842	0350 Cube Case	19 x 19 x 18.5"	32 lbs.	\$320.00
423-765	0370 Cube Case	24 x 24 x 24"	44 lbs.	\$379.00
423-764	0357 Caster Kit	-	4 lbs.	\$50.00



New

Airtight & Watertight Foam-Filled "Carry-On" Case

- Automatic purge valve
- Full 1/4" thick walls
- Lifetime factory warranty

This is the toughest and biggest airline-legal carry-on case on the market. Features telescoping handle, wheels, easy-open Double-Throw latches, water/dust proof neoprene o-ring seal, two padlock loops and automatic Purge Valve. It's a box that breathes, but can't get wet inside. Filled with layers of pick-n-pluck foam in the bottom and convoluted foam in the lid. Handle extends to 37-1/2".

Part No.	Description	L x W x D (ID)	Weight	Price
423-774	1510 Carry-On Case	20-3/8" x 11-7/16" x 7-1/2"	16 lbs.	\$175.00



Mil-Standard Shipping Containers

- Airtight and watertight
- Foam filled
- Retractable handle and wheels

Military style transport cases are rotationally molded for added strength and impact resistance. Built to exceed all ATA and most industrial/military shipping specifications. Cases feature stainless steel hardware that prevents rusting and pressure relief valve. UV and solvent resistant. Cases are stackable and filled with layers of cube foam. Pull-handle assembly and wheels are removable. Lifetime factory warranty.

Part No.	Description	Inside Dimensions L x W x D	Price
423-734	Mil-Std Container	22 x 17 x 10-1/2"	\$220.00
423-735	Mil-Std Container	22 x 22 x 12"	\$270.00
423-736	Mil-Std Container	24 x 23 x 17"	\$480.00
423-737	Mil-Std Container	30 x 25 x 15"	\$490.00

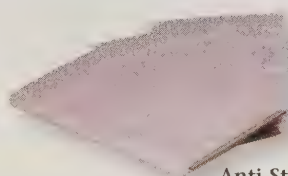


Regular and Large Circuit Board Cases

- Anti-static foam interior
- Holds boards up to 15" x 12"

Super-tough cases with key locks; top, bottom and sides covered with anti-static foam. **Regular Case** measures 17-3/4" x 14-1/2" x 10-1/2" (useable 15" x 11" x 9"). Accommodates up to twelve 11-1/2" x 9" partitions to divide the case side-to-side, or up to nine 15" x 9" partitions to divide front to back. (Eight 11-1/2" x 9" partitions included with case.) **Large Case** measures 19" x 19" x 19" (useable 15" x 15" x 12"). Accommodates up to thirteen 15" x 12" partitions to divide the case as illustrated. (Six 15" x 12" partitions are included with case.) (USA)

Part No.	Description	Inside Dimensions L x W x D	Weight	Price
377-931	Regular Anti-Static Circuit Board Case	15" x 11" x 9"	14 lbs.	\$243.00
377-940	Large Anti-Static Circuit Board Case	15" x 15" x 12"	16 lbs.	\$287.00
377-004	Regular Partitions, 4/pk.	11-1/2" x 9"	-	\$30.00
377-003	Medium Partitions, 3/pk.	15" x 9"	-	\$23.00
377-002	Large Partitions, 3/pk.	15" x 12"	-	\$28.00



Anti-Static
Foam



Deep Circuit Board Case

- Anti-static foam interior
- Holds boards up to 21" x 16"

Heavy-gauge high density polyethylene case with military-style handles, chrome-plated key-locking latches, full-length piano hinge, tongue and groove aluminum valance with rubber O-ring gasket. Board-holding cavity is slotted on all four sides to accept the anti-static partitions sold separately below. The optimum number of Regular Partitions is four packages of three each to accommodate a dozen 10" x 16" boards up to 1-1/4" thick (as illustrated). Order Long Partitions for large boards up to 21" x 16"; optimum number is two packages of three. (USA)

Part No.	Description	Inside Dimensions L x W x D	Weight	Price
377-958	Deep Circuit Board Case	24-1/2" x 13-1/2" x 18"	24 lbs.	\$295.00
377-147	Regular Partitions, 3/pk.	10" x 16"	-	\$20.00
377-149	Long Partitions, 3/pk.	21" x 16"	-	\$35.00





377-925

377-775

377-220

377-115

377-555

Super Tough Foam-Filled Cases

- Strong enough to use as shipping containers
- Full-length piano hinges
- Key locking latches

Truly rugged cases made of tough high-density polyethylene. Feature full-length piano hinges, tongue and groove aluminum valances, chrome-plated lockable latches, and filled with layers of 1" foam. Permanent gray color won't fade, chip or mar. (Note: Only case **377-555** opens a full 180° and includes a hinged flap in the lid with a locking turn buckle to prevent items from falling out.) Foam cutting knife included. One year warranty.

Part No.	L x W x D (ID)	Bottom Depth	Lid	Weight	Price
377-220	20-3/4 x 16-1/2 x 8-3/4"	5-3/4"	3-3/4"	11 lbs.	\$199.00
377-925	18 x 14-3/4 x 9"	5-1/4"	4-1/4"	9 lbs.	\$170.00
377-115	18 x 14-3/4 x 11-1/4"	7-1/4"	4"	14 lbs.	\$185.00
377-555	18 x 14-3/4 x 10"	6"	4"	14 lbs.	\$185.00
377-775	18 x 14-3/4 x 6-1/2"	3-1/2"	3"	9 lbs.	\$165.00



377-029

Deluxe Polyethylene Protective Cases

- Available with layered or pre-cut foam

Silver gray color won't fade, chip or mar. Full-length piano hinge, tongue and groove aluminum valance, and chrome-plated lockable latches. Dimensions are 23 1/2" x 17 1/2" x 8". Bottom/Lid split is 5/3". One year warranty.

Layered Foam Model has layered foam in the bottom and convoluted foam in the lid.

Pre-cut Foam Model has pre-cut foam in the bottom and convoluted foam in the lid. Pre-cut foam is cut in a checkerboard pattern, making it easy to match the shape of cameras, instruments and other sensitive gear.

Part No.	Description	Weight	Price
377-340	Case w/Layered Foam	16 lbs.	\$215.00
377-029	Case w/Pre-cut Foam	16 lbs.	\$215.00

377-511



(for details see page 3)

ROTA-TOUGH™

Foam-Filled Shipping Case

- Rotationally molded for strength
- Durable under heavy use

Rotationally molded construction provides extra strength and durability. Uniform wall thickness and extra-thick corners resist impact damage. Features include black powder-coated tongue-and-groove valance that resists scratches, full-length piano hinge, ball bearing lid stays and two key-lock latches. Three year warranty.

377-511 is filled with layers of 2" pre-cut foam in the bottom, and convoluted foam in the lid. **377-833** is filled with layers of 1" pre-cut foam (bottom and lid).

Part No.	L x W x D (ID)	Bottom Depth	Lid	Weight	Price
377-511	17-3/4 x 14-1/2 x 7-3/4"	5.25"	2.5"	9 lbs.	\$150.00
377-833	17-3/4 x 14-1/2 x 10"	7"	3"	10 lbs.	\$165.00



Foam-Filled Cases

- Airtight/watertight
- Crush proof
- Lifetime factory warranty

Constructed of ultra high impact structural polypropylene. Meets or exceeds military specifications. These lightweight cases feature a neoprene "O" ring seal, padlockable flanges and multiple easy-open latches. Cases are watertight to 30', airtight and dustproof. Automatic purge valve compensates for changes in temperature and altitude, and prevents moisture from entering the case. Filled with pre-scored pick-n-pluck foam in bottom and convoluted foam in lid.

116-774 comes with solid foam only. (USA)

Part No.	Description	L x W x D (ID)	Price
403-686	Black Case	8-3/8 x 6 x 3-3/4"	\$31.00
116-730	Black Case	9-3/8 x 7-1/2 x 4-1/16"	\$42.50
116-743	Black Case	12 x 9-1/16 x 5-3/16"	\$86.10
116-756	Black Case	17 x 11-7/16 x 6-1/8"	\$117.00
403-685	Black Case	17-7/8 x 12-3/4 x 6-3/4"	\$128.70
116-762	Black Case	19 x 14-7/16 x 7-3/4"	\$146.30
432-551	Orange Case	19 x 14-7/16 x 7-3/4"	\$146.30
116-765	Black Case	21-5/8" x 16-7/8" x 7-7/8"	\$174.50
116-774	Black Case	35-3/4 x 13-3/4 x 5-1/4"	\$204.10
432-001	Combination Lock	—	\$10.25



PELICAN

Combination Lock by Pelican®

Part No.	Description	Price
432-001	Combination Lock	\$10.25



Centurion Elite Foam-Filled Aluminum Cases

- Pre-stressed aluminum shell
- Brushed satin finish

These handsome, prestigious cases are made of seamless deep-drawn, heat-treated aluminum. Lightweight yet strong enough to stand on. Tongue and groove closure is fitted with a resilient neoprene gasket, so when the case is shut the gasket compresses to form a moisture and dust-resistant seal.

Other quality features include a full-width piano-hinge, chrome-plated sure-locking latches, three-digit combination lock and matching Tennite handle. Convoluted foam in the lid provides additional protection. (USA)

Part No.	Description	L x W x D (ID)	Price
2-900	Foam-Filled Aluminum Case	12 x 9 x 5"	\$203.00
2-903	Foam-Filled Aluminum Case	18 x 13 x 6"	\$243.80
2-931	Foam-Filled Aluminum Case	21 x 13 x 6-1/2"	\$284.60
2-932	Foam-Filled Aluminum Case	21 x 17 x 7-1/2"	\$325.40
2-938	Foam-Filled Aluminum Case	24 x 18 x 8-1/2"	\$396.80



ZERO CORPORATION

4-Sided Foam-Filled Equipment/Tool Case

- High visibility yellow
- Customize foam with over 1000" sq. of layout space
- Durable, versatile and convenient for tools, meters, spares, etc.

A unique, four-section case design features 2" of foam in outside sections, and 1-3/4" of foam in both center sections. Features see-through retainer panels to keep contents secure. Case shell is vacuum formed of high density polyethylene; valance is extruded aluminum. Additional features include full-length piano hinges, spring-loaded military-style handles and 1/4-turn latches. 14 lbs.

Part No.	Description	L x W x D (ID)	Price
54-194	Foam-Filled Case	18 x 14-1/2 x 8"	\$205.00



JENSEN®



How to Select a Foam-Filled Case

Measure piece(s) of equipment. Add 4" to each dimension to determine length, width and height of foam. If more than one piece is to be stored in the same container, allow 2" of foam between the items.

2" of 2 lb. density foam will normally provide adequate protection for your equipment. For additional assistance, or if you don't see the exact size you need, please call 800-225-5370.



Light-Duty ABS Series

Black, scuff resistant molded ABS thermoplastic forms the tough shell of these cases. Extruded aluminum rim, drawbolt key locks, and strong molded handle. Case bottom is filled with layers of pre-cut polyether foam. Lid is filled with convoluted (egg crate) foam. One year warranty. (USA)

Part No.	L x W x D (ID)	Bottom Depth	Lid	Weight	Price
116-748	12 x 9 x 5"	3"	2"	3	\$56.00
116-751	16 x 12 x 5"	3"	2"	4.1	\$69.00
116-754	16" x 12" x 7"	4"	3"	4.6	\$82.00
116-753	18 x 13 x 7"	4"	3"	5	\$99.00



Medium-Duty ABS Series

Grained ABS plastic shell with extruded aluminum frame, golf grip handle, cast chrome key locks and piano hinge. Case bottom is filled with layers of pre-cut polyether foam. Lid is filled with convoluted (egg crate) foam. One year warranty. (USA)

Part No.	L x W x D (ID)	Bottom Depth	Lid	Weight	Price
116-813	20 x 14 x 7"	4"	3"	8.5	\$123.00
116-838	22 x 16 x 7"	4"	3"	10.2	\$140.00
116-852	24 x 18 x 7"	4"	3"	12.6	\$159.00
116-896	28 x 20 x 7"	4"	3"	14.6	\$199.00

Low Cost Blow Molded Cases

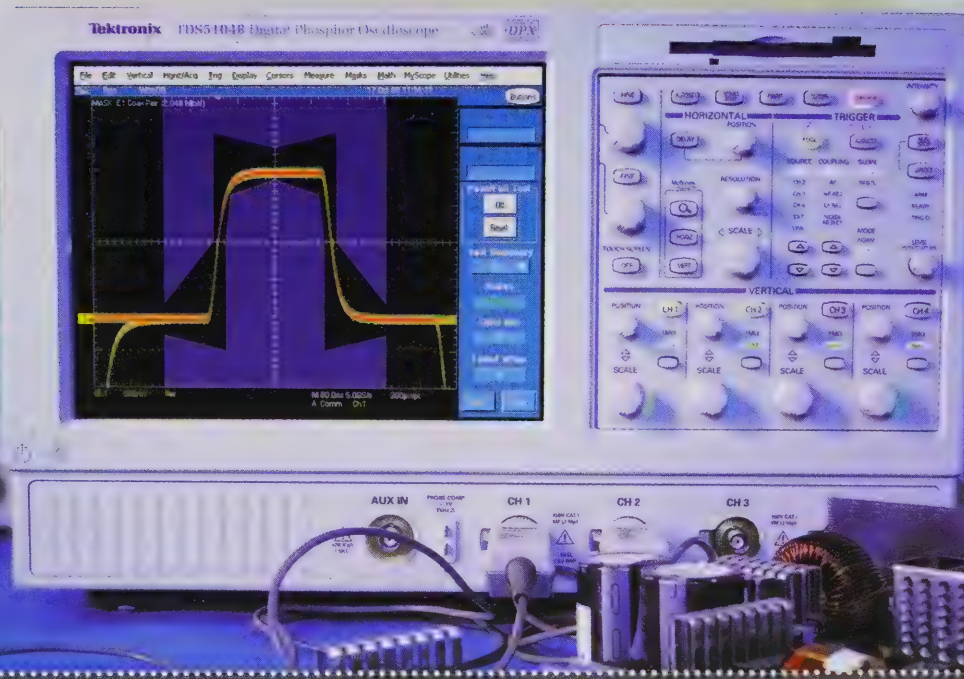
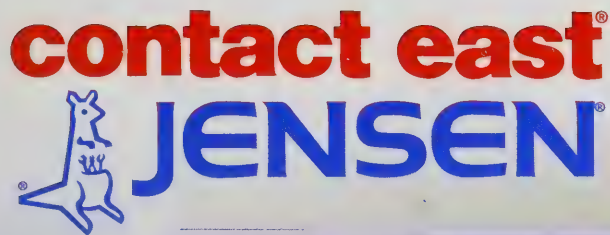
- Low cost solution to customizing your own cases
- Chemical, dent, and scuff resistant

Shell is made from high density polyethylene with double wall construction. Hardware features mechanical latches that can be replaced in the field. Interior has pre-cut cubed foam in the body and egg crate foam in the lid. (USA)



Part No.	L x W x D (ID)	Weight	Price
116-830	9-1/2 x 6 x 2-5/8"	1.3 lbs.	\$18.00
116-909	11 x 7 x 3-3/8"	2 lbs.	\$26.00
116-930	12-1/2 x 9 x 5-1/8"	2.75 lbs.	\$35.00
116-936	14 x 10 x 4"	3 lbs.	\$42.00
116-943	16 x 11 x 2-7/8"	3.4 lbs.	\$40.00
116-946	17-3/4 x 12-3/4 x 7"	5.5 lbs.	\$83.00
423-785	21-5/16 x 14-5/16 x 9-5/8"	9.5 lbs.	\$110.00
423-786	25-13/16 x 14-5/16 x 9-5/8"	12.3 lbs.	\$130.00





Your Solutions Provider For Tektronix



ORACLE®



Contract Holder
FSS Contract GS-06F-0020M

**We are ready to help you
select the right Tektronix
Scope for YOUR needs!**

*For product demonstration or information
call us toll free at:*

800-225-5370

*or visit our
web sites at:*

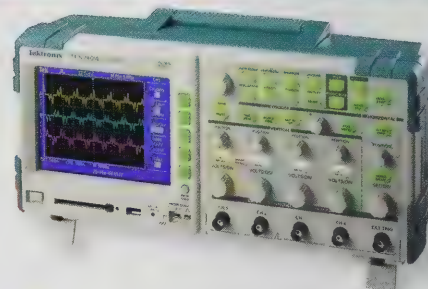
**www.contacteast.com
www.jensentools.com**

Innovation Never Rests...

TPS2000 Digital Storage Oscilloscope

Eight Hours of Continuous Operation

See Page 82



TDS5000B Digital Phosphor Oscilloscope

Now the World's Easiest to Use Mid-Range Oscilloscope

See Page 80



TLA5000 Series Logic Analyzers

The Debug Power You Need, the Simplicity You Want and a Price You Can Afford

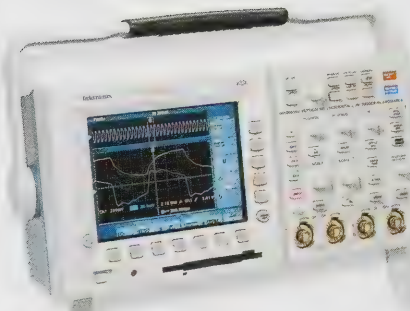
See Page 75



TDS3000B Digital Phosphor Oscilloscope

Provides Unmatched Performance & Portability at an Affordable Price

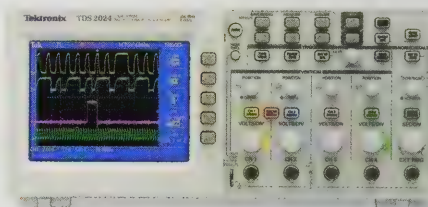
See Page 78



TDS2000 60MHz, 100MHz, 200MHz 2 or 4 Channel Digital Storage Oscilloscope

Colorful Performance at a Black and White Price

See Page 77



TDS1000 60MHz, 100MHz 2 Channel Digital Storage Oscilloscope

Superior Performance and Affordability

See Page 77



THS700 Handheld Digital Real-Time Oscilloscope

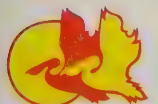
200MHz Performance in a Handheld Scope

See Page 84



Tektronix

visit our web sites at:
www.contacteast.com
www.jensentools.com



PELICAN



Laptop Computer Case

Airtight and watertight protection for your valuable laptop computer. Computer accessories fit conveniently underneath computer in a removable shock-absorbing tray. Padded protective lid organizer holds folders, computer disks, cellular phone and more. Features keyed locking latch, neoprene O-ring seal and exclusive purge valve. Removable shoulder strap included. Fits computers up to 14 x 10-7/8 x 2-1/2"; overall size 19-7/16 x 14 x 4-3/4". Lifetime factory guarantee.

Part No.	Description	Price
432-651	Laptop Computer Case, Black	\$203.50
432-001	Combination Lock	\$10.25

Polyethylene Foam-Filled Cases

Outstanding Toughness Provides Superior Protection

An excellent value general purpose foam filled case that offers outstanding toughness. Made from high-density polyethylene cases are unaffected by common industrial chemicals. Cases are crack and fracture resistant in temperatures ranging from -20°F to +170°F. All cases feature full length piano hinges, tongue-and-groove aluminum valances and double padded steel core handles for comfort. Lids are lined with convoluted foam. Bottoms are filled with layers of foam partially pre-cut on a 1" grid (except for three largest sizes which have layers of 1-1/2" thick solid foam.) All models have two chrome-plated key latches and a built-in combination lock. All dimensions provided are inside dimensions only.

Part No.	L x W x H	Bottom Depth	Top Depth	Weight (lbs.)	Price
116-778	18" x 13" x 6"	3-1/2"	2-1/2"	8.7	\$123.00
116-779	18" x 13" x 8"	5"	3"	9.5	\$130.00
116-780	18" x 13" x 10"	5"	5"	9.3	\$151.00
116-831	21" x 16" x 8"	5"	3"	11	\$165.00
116-832	21" x 16" x 10"	6"	4"	11.6	\$169.00
116-835	21" x 16" x 12"	7"	5"	13.4	\$175.00
116-871	25" x 19" x 8"	5"	3"	15.5	\$187.00
116-872	25" x 19" x 10"	6"	4"	17.2	\$192.00
116-873	25" x 19" x 12"	7"	5"	18.5	\$200.00



423-794



New

Catalog Case

With or without Wheels/Telescoping Handle

You will be amazed at how much "stuff" these cases hold. Features combination locks and large padded web strap handle. Inside are two collapsible dividers plus two removable zipper pouches on the top flap interior. Five outside pockets include a 17 x 11 x 1-1/2" flap pocket, two 7 x 13 x 1-1/2" end pockets and a 17 x 5" slit pocket. Wheeled version features roller-blade type wheels and a telescoping handle that extends to 42". 20 x 9 x 14" OD.

Part No.	Description	Weight	Price
423-794	Case w/ Wheels & Handle	10.5 lbs.	\$199.00
423-795	Case only	6 lbs.	\$150.00

JENSEN®

Ultima™

Soft-Sided Computer & Business Cases

- Rugged Cordura® Plus construction
- Water and stain resistant
- Exceptional quality

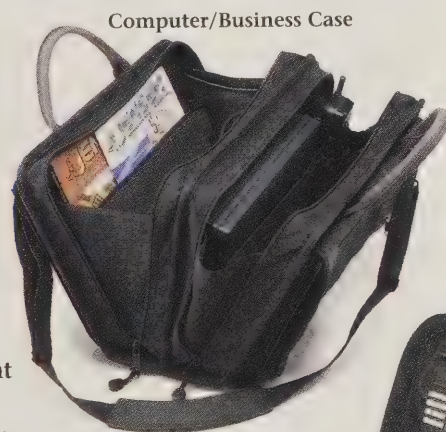
Portable Computer Case

Provides ample space for computer, cell phone, power supply and accessories. Adjustable dividers, document pocket in lid, one zipper and two flap pockets on outside of case. Padded handle and shoulder strap for comfort. 17-1/2 x 11-1/2 x 5".

Computer/Business Case

This roomy soft-sided case can carry a laptop or notebook computer plus all your necessary business materials. Padded computer pocket is suspended for added protection. One side holds the computer and accessories while the other holds documents, note pad, cell phone, pens etc. Two exterior flap pockets are full size and gusseted. Rear flap contains two zippered pockets providing easy access to airline tickets, etc. Removable shoulder strap included. Fits computers up to 12-1/4 x 7-1/2 x 2"; overall size 16 x 11-1/2 x 6-1/2".

Part No.	Description	Price
216-555	Portable Computer Case	\$149.00
216-638	Computer/Business Case	\$130.00



Computer/Business Case

Laptop not Included

Portable Computer Case

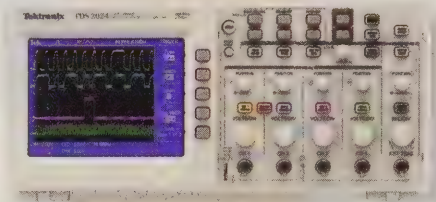


Tektronix Oscilloscope Selection Guide

THS700



TDS2000



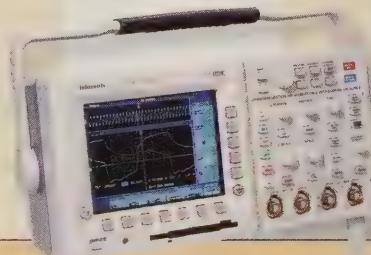
TDS5000B



TDS1000



TDS3000B



TPS2000



	Model					
Key Specifications	THS700	TDS1000	TDS2000	TDS3000B	TDS5000B	TPS2000
Channels	2*	2	2 or 4	2 or 4	2 or 4	2 or 4*
Bandwidth	100 to 200MHz	60 to 100MHz	60 to 200MHz	100 to 500MHz	350MHz to 1GHz	100 to 200MHz
Rise Time	3.5 to 1.75ns	5.83 to 3.5ns	5.83 to 3.5ns	3.5ns to 700ps	1.15ns to 400ps	5.83 to 3.5ns
Sample Rate	500MS/s to 1GS/s	1GS/s	2GS/s	1.25 to 5GS/s	5GS/s	1GS/s to 2GS/s
Oscilloscope Type	DSO	DSO	DSO	DPO up to 3.6K waveforms/sec	DPO/DPX up to 100k waveforms/sec	DSO
Display	Monochrome	Monochrome	Color	Color	Color	Color
Maximum Record Length	2.5KB	2.5KB	2.5KB	10KB	8MB	2.5KB
Trigger Types	Edge; pulse; video; external; motor	Edge; video; pulse (glitch)	Edge; video; pulse (glitch)	Edge; video; logic (pattern; state); pulse (glitch, runt, slewrate); comm	Edge; video; logic (pattern, state, setup/hold); pulse (glitch; runt; time-out); transition; window; trigger delay	Edge; video; pulse (glitch)
Connectivity**	Basic	Advanced via optional TDS2CMA comms module	Advanced via optional TDS2CMA comms module	Extended	Extended	Standard
Application Specific Solutions	Power	FFT	FFT	Comm; Video	Jitter; disk drive; USB	FFT
Waveform Math & Analysis***	Basic	Basic + FFT standard	Basic + FFT standard	Basic + FFT optional	Basis (Extended optional)	Basic + FFT standard
Other Features	Handheld; battery power	External trigger input; Autoset menu; probe check wizard; auto measurements; multi-language user interface	External trigger input; Autoset menu; probe check wizard; auto measurements; multi-language user interface	Portable (7 lbs./ 3.2 kg); battery power	Built-in printer; CD-RW drive optional	Portable (7lbs; battery power; OpenChoice software
Applications	Power harmonic measurements; installation, maintenance & repair	Service/repair; education/training; manufacturing test/quality control; design/debug	Service/repair; education/training; manufacturing test/quality control; design/debug	Telecom mask test/manufacturing; digital design/troubleshooting; video design/service; power supply design	Digital design/debug; power measurements; video design; DVD analysis	Advanced electronics design; industrial power design; education; troubleshooting
Full Description	Page 84	Page 76	Page 77	page 78	Page 80	Page 82

* Isolated Channel

** Connectivity

Basic = RS-232

Advanced = Basic, plus GPIB, Centronics; May include Floppy Disk

Extended = Advanced, plus LAN, Ethernet; May include USB, PCMCIA, CD-ROM, Open access to Windows Platform

*** Waveform Math Analysis

Basic = Simple waveform math

Advanced = Advanced waveform math, FFT

Extended = Advanced waveform math, FFT or Spectral, Compatibility with Windows analysis & productivity software



Tektronix



TLA5000 Series Logic Analyzers

The Debug Power You Need, the Simplicity You Want and a Price You Can Afford

- 500 ps (2GHz)/32 Mb deep memory timing
- 235 MHz state acquisition for high-speed synchronous circuits
- Setup/hold violation triggering to validate setup/hold performance

The affordable TLA5000 series logic analyzers make high-speed timing resolution, fast state acquisition, deep memory and advanced triggering available at prices not previously seen. For both new and experienced users, the TLA5000 series is ideal for single-bus timing and state analysis. An intuitive user interface, familiar Windows-based desktop and OpenChoice™ networking and analysis features make these logic analyzers easy to network into your design environment.

500 ps timing resolution and 32 Mb memory depth with simultaneous 125 ps MagniVu™ timing resolution within each acquisition means you can measure digital signal timing on increasingly faster signals with confidence. With MagniVu timing resolution, you can quickly find difficult problems such as digital logic errors, glitches, setup/hold violations, and crosstalk.

Today, most designs can have both digital and analog anomalies. With iView™ time-correlated digital-analog view, you'll clearly see how analog anomalies are affecting your digital signals — right on your logic analyzer display!

- 125 ps MagniVu™ high-resolution timing on each channel
- iView™ time-correlated analog-digital view
- Windows-based set-up wizards

These logic analyzers are available with four different probe options. Model P6418 (17 channel general purpose probes), P6434 (34 channel probe with quick connector for applications with Amp Mictor high density connectors), P6417 (17 channel probe with ability to separate groups into individual channels) and P6419 (17 channel hi-density compression probes).

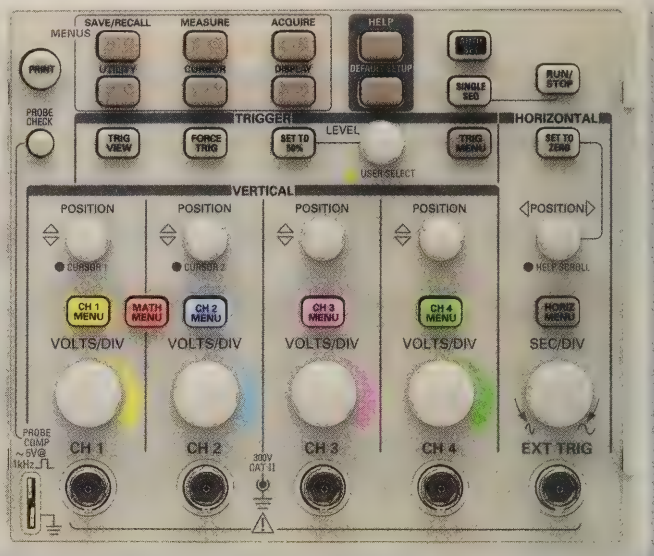
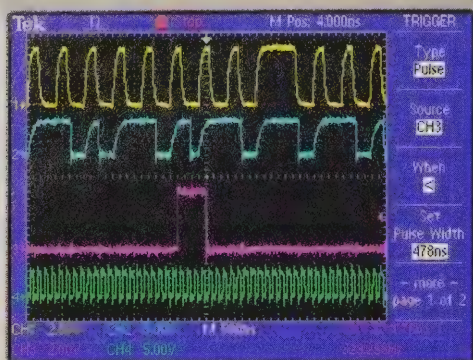
Units ship complete with mini-keyboard, optical wheel mouse, front panel cover, accessory pouch, mouse pad, TLA5000 software, user manual, certificate of calibration and power cord.

Part No.	Model	Description	Price
423-607	TLA5201	34 Channel Logic Analyzer	\$9,430.00
423-608	TLA5202	68 Channel Logic Analyzer	\$11,580.00
423-609	TLA5203	102 Channel Logic Analyzer	\$13,840.00
423-610	TLA5204	136 Channel Logic Analyzer	\$16,090.00
423-611	52011C	iView external oscilloscope cable kit	\$1,805.00
423-612	P6418	17-Channel general purpose probe	\$650.00
417-198	P6434	34 Channel High Density Probe	\$1,080.00
423-614	P6417	17 Channel split channel probe	\$950.00
423-615	P6419	17 Channel hi-density compression probe	\$1,000.00

TLA 5000 Series Specifications				
Model	TLA5201	TLA5202	TLA5203	TLA5204
Channels	34	68	102	136
Time Stamp	51 bits at 125 ps resolution			
MagniVu Timing	125 ps (8GHz)			
State Clock Rate	235 MHz			
Deep Timing (full/half CH's)	2 ns/ 1ns			
Memory Depth (full/half CH's)	512 Kb /1 Mb per channel			
Triggering	16 independent trigger states with up to 16 If/Then clauses per state			
Trigger Event Types	Word, group, channel, transition, range, anything, counter value, timer value, signal, glitch, setup-and-hold violation, snapshot			



Tektronix TDS 2024 FOUR CHANNEL DIGITAL STORAGE OSCILLOSCOPE 200 MHz 2 GS/s



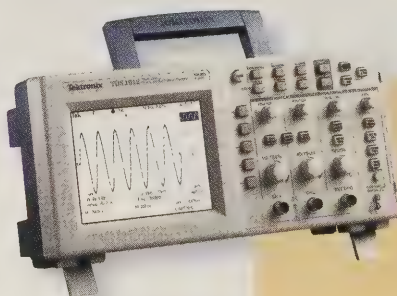
Tektronix

TDS1000 and TDS2000 Series 200MHz, 100MHz and 60MHz, Two & Four Channel Digital Storage Scopes

Colorful Performance at a Black and White Price

- Available with color or monochrome display
- Sample rates up to 2GS/s
- Dual timebase
- Context-sensitive Help
- 10 language user interface
- Probe Check Wizard to ensure correct probe usage
- Autoset menu with waveform selection
- 11 automatic measurements
- Built-in FFT
- Peak detect mode
- Waveform and setup memories
- Extended capabilities with optional communications module
- NIST-traceable certificate of calibration

These scopes extend the performance and ease-of-use features in the TDS200 series. They offer the low cost and ease-of-use of analog oscilloscopes combined with the state-of-the-art digital real-time technology. By sampling at 10 and 16 times their bandwidths on all channels, these scopes provide accurate real-time acquisition up to their full bandwidth. The user interface is similar to an analog scope. Knobs and buttons are grouped by function and provide direct access to controls. Context-sensitive Help provides indexed and hyper-linked topics that allow you to selectively learn about the operation of various oscilloscope features and functions. Menus and help text are provided in 10 user-selectable languages: English, Spanish, French, German, Italian, Portuguese, Korean, Japanese, Traditional Chinese, or Simplified Chinese. Readouts and menus are displayed on-screen at all times, allowing you to determine the instrument settings more quickly and accurately. In addition, digital storage technology supports features not available on analog scopes. The Probe Check Wizard optimizes probe setup and assures accurate measurements by guiding you to properly compensate the probe and confirm the attenuation factor. Press the autoset button and your scope automatically detects sine waves, square waves and video signals and displays icon-based messages of these types of signals. Eleven automatic measurements provide quick execution of advanced scope operations, resulting in fast, error-free measurements. The built-in FFT function allows you to analyze, chara-



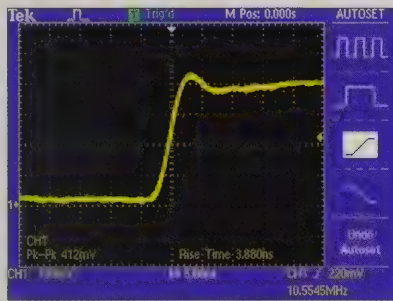
Only 4.9" deep!



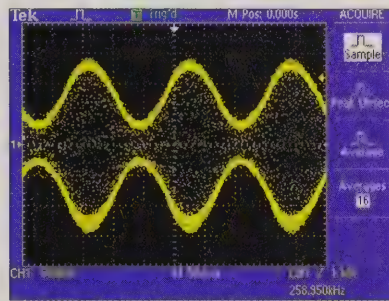
Shown with option TDS2CMAX (423-604) installed

terize and troubleshoot circuits by viewing frequency and signal strength. Peak detect captures the extremes of a signal, helping you locate random glitches that are often undetected. Waveform storage allows you to save waveforms for later analysis or comparison to a live signal. You can store 10 frequently used front panel setups for instant recall, speeding up your routine tests. The 5.6" diag. LCD display has an adjustable multilevel contrast. Seven models to choose from. The two TDS1000 series models feature a monochrome display. The five TDS2000 series models feature a color display. See full spec table below. All models measure 12.75" x 5.96" x 4.9" and weigh 4.9 lbs. Come complete with user manual, a switchable 1X/10X probe (Model P2220) for each channel, and NIST-traceable certificate of calibration. 3-year warranty. The optional TDS2CMAX Communications Extension Module (423-604) provides communication with other instruments, peripherals and systems via RS-232, GPIB, and Centronics interface, allowing full programmable control of automated measurements and remote display and archiving (includes OpenChoice software).

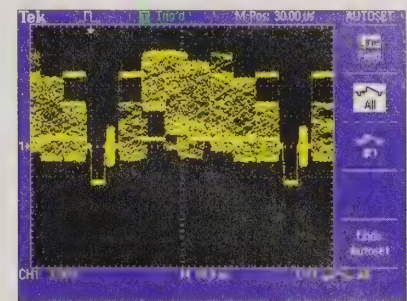
Part No.	Model	Description	Price
419-239	TDS2024	200MHz, 4 Channel Color Scope	\$2,795.00
419-240	TDS2022	200MHz, 2 Channel Color Scope	\$2,395.00
419-241	TDS2014	100MHz, 4 Channel Color Scope	\$1,995.00
419-242	TDS2012	100MHz, 2 Channel Color Scope	\$1,595.00
419-243	TDS2002	60MHz, 2 Channel Color Scope	\$1,295.00
419-244	TDS1012	100MHz, 2 Channel Monochrome Scope	\$1,295.00
419-245	TDS1002	60MHz, 2 Channel Monochrome Scope	\$995.00
423-604	TDS2CMAX	Communications Extension Module	\$350.00
423-605	TDS2MEM	Memory Module	\$350.00
419-247	RM2000	Rack Mount Kit	\$240.00
425-069	AC2100	Soft Carrying Case	\$78.00
425-070	HCTEK321	Transit Case	\$595.00
409-233	WSTRO	WaveStar™ Software for Scopes	\$330.00



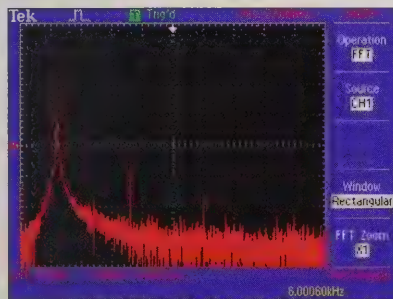
Autoset menu square wave with autoset risetime selected.



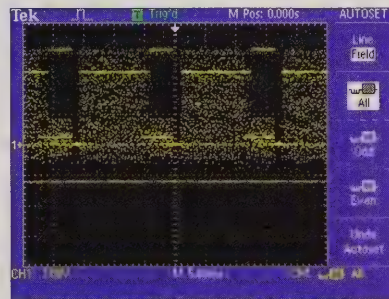
AM modulated signal using sample mode and dots.



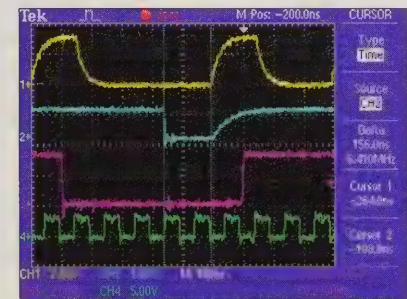
Autoset menu with video signal using video line-selectable triggering.



FFT math function with rectangular filter selected.



Autoset menu with video signal using video triggering.



Four-channel display using pulse width triggering.

the contact east advisor

...On Selecting Tektronix Digital Storage Scopes

Model	TDS2024	TDS2022	TDS2014	TDS2012	TDS2002	TDS1012	TDS1002
Display	Color	Color	Color	Color	Color	Monochrome	Monochrome
Bandwidth	200MHz	200MHz	100MHz	100MHz	60MHz	100MHz	60MHz
Max. Sample Rate Per Channel	2GS/s	2GS/s	1GS/s	1GS/s	1GS/s	1GS/s	1GS/s
Record Length	2.5K pts.	2.5K pts.	2.5K pts.	2.5K pts.	2.5K pts.	2.5K pts.	2.5K pts.
Glitch Capture	12ns	12ns	12ns	12ns	12ns	12ns	12ns
Save Reference	4	2	4	2	2	2	2
Vert. Resolution	8 bits	8 bits	8 bits	8 bits	8 bits	8 bits	8 bits
Sample Mode	Peak Detect, Sample, Average, Single	Peak Detect, Sample, Average, Single	Peak Detect, Sample, Average, Single	Peak Detect, Sample, Average, Single	Peak Detect, Sample, Average, Single	Peak Detect, Sample, Average, Single	Peak Detect, Sample, Average, Single
Channels	4	2	4	2	2	2	2
Max. V. Sensitivity	2mV	2mV	2mV	2mV	2mV	2mV	2mV
Trigger Modes	Auto, Normal, Single	Auto, Normal, Single	Auto, Normal, Single	Auto, Normal, Single	Auto, Normal, Single	Auto, Normal, Single	Auto, Normal, Single
Trigger Source	1, 2, 3, 4, Line, Ext.	1, 2, Line, Ext.	1, 2, 3, 4, Line, Ext.	1, 2, Line, Ext.	1, 2, Line, Ext.	1, 2, Line, Ext.	1, 2, Line, Ext.
Trigger Coupling	AC, DC, Gnd	AC, DC, Gnd	AC, DC, Gnd	AC, DC, Gnd	AC, DC, Gnd	AC, DC, Gnd	AC, DC, Gnd
Timebase	2.5ns-50s	2.5ns-50s	5ns-50s	5ns-50s	5ns-50s	5ns-50s	5ns-50s
Input R/C	1M Ω /20pF	1M Ω /20pF	1M Ω /20pF	1M Ω /20pF	1M Ω /20pF	1M Ω /20pF	1M Ω /20pF
CRT Size/Illuminated	5.6", 320 x 240 Pixels Backlit	5.6", 320 x 240 Pixels Backlit	5.6", 320 x 240 Pixels Backlit	5.6", 320 x 240 Pixels Backlit	5.6", 320 x 240 Backlit	5.6", 320 x 240 Pixels Backlit	5.6", 320 x 240 Pixels Backlit
Power	120-240V50-60Hz	120-240V50-60Hz	120-240V50-60Hz	120-240V50-60Hz	120-240V50-60Hz	120-240V50-60Hz	120-240V50-60Hz
Size	7" x 19" x 4.25"	7" x 19" x 4.25"	7" x 19" x 4.25"	7" x 19" x 4.25"	7" x 19" x 4.25"	7" x 19" x 4.25"	7" x 19" x 4.25"
Weight	4.4 lbs.	4.4 lbs.	4.4 lbs.	4.4 lbs.	4.4 lbs.	4.4 lbs.	4.4 lbs.
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years
CRT Readout	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cursor Measurement	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Part No.	419-239	419-240	419-241	419-242	419-243	419-244	419-245
Price	\$2,795.00	\$2,395.00	\$1,995.00	\$1,595.00	\$1,295.00	\$1,295.00	\$995.00



Tektronix

TDS3000B Series 100MHz to 600MHz Bandwidths Portable Two & Four Channel Digital Phosphor Oscilloscopes

**Provides Unmatched Performance and Portability
at an Affordable Price**

- 5GS/s maximum real-time Sample Rate, w/Sin(x)x interpolation
- 3600 wfms/s continuous wave form capture rate
- 2 or 4 channels
- Full VGA color LCD
- 25 automatic measurements
- FFT Standard
- Multi-language user interface
- QuickMenu graphical user interface for easy operation
- WaveAlert™ automatic waveform anomaly detection

The TDS3000B packs the power of a DPO, digital real-time (DRT) sampling technology, WaveAlert waveform anomaly detection, OpenChoice documentation and analysis solutions and five application-specific modules into a lightweight battery-capable design.

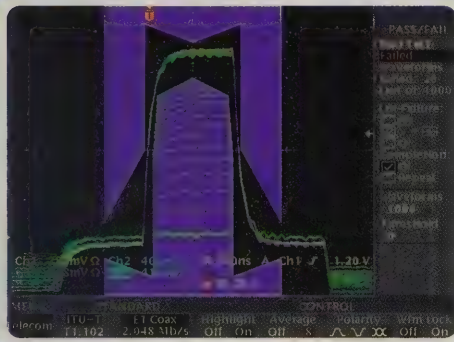
A DPO provides a greater level of insight into complex signals. The TDS3000B series DPO delivers 3,600 wfms/s continuous waveform capture rate to capture glitches and infrequent events three times faster than comparable oscilloscopes. Some oscilloscope vendors claim high wave form capture rates for short bursts of time, but only DPOs can deliver these fast waveform capture rates on a continuous basis - saving minutes, hours or even days by quickly revealing the nature of faults so advanced triggers can be applied to isolate them. In addition, the real-time intensity grading highlights the details about the "history" of a signal's activity, making it easier to understand the characteristics of the waveforms you've captured.

Applications: Digital design, debug and test, video installation and service, power supply design, education and training, telecommunications mask testing and manufacturing test.

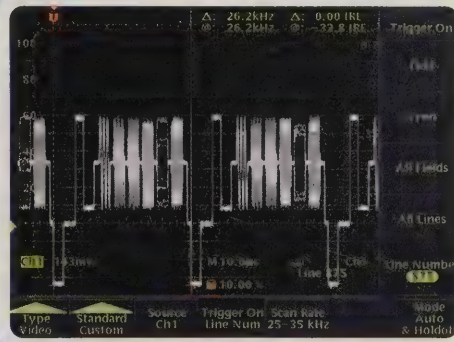


- OpenChoice® Solutions simplifies instrument control, documentation and analysis
 - ◆ e*Scope Web-based remote control
 - ◆ Built-in ethernet port
 - ◆ GPIB, RS232, VGA
 - ◆ TDSPCS1 OpenChoice Software
 - ◆ WaveStar™ Software
 - ◆ Integration with third-party software
- Application modules for specialized analysis
 - ◆ Advanced analysis module
 - ◆ Limit testing module
 - ◆ Telecommunications mask testing module
 - ◆ Extended video module
 - ◆ 601 serial digital video module
- Optional internal battery allows operation up to 3 hours
- Portable plug-in printer
- TekProbe™ interface supports active, differential and current probes for automatic scaling and units

Part No.	Model	Description	Price
425-071	TDS3064B	600MHz, 4 Channel DPO	\$11,695.00
417-707	TDS3054B	500MHz, 4 Channel DPO	\$9,995.00
417-708	TDS3052B	500MHz, 2 Channel DPO	\$8,195.00
425-072	TDS3044B	400MHz, 4 Channel DPO	\$8,195.00
417-709	TDS3034B	300MHz, 4 Channel DPO	\$6,795.00
417-710	TDS3032B	300MHz, 2 Channel DPO	\$5,395.00
425-073	TDS3024B	200MHz, 4 Channel DPO	\$5,695.00
417-711	TDS3014B	100MHz, 4 Channel DPO	\$4,795.00
417-712	TDS3012B	100MHz, 2 Channel DPO	\$3,995.00



TDS3000B DPO provides breakthrough test speeds for telecommunications line card testing. The telecom QUICKMENU puts all the commonly used telecom testing functions on a single menu.



Custom video trigger allows the TDS3000B to trigger on standards such as RS343 (26.2 kHz scan rate).



Trace & identify ITU-R-BT.601 video signals with TDS3SDI 601 serial digital video module.

TDS3000B Specifications

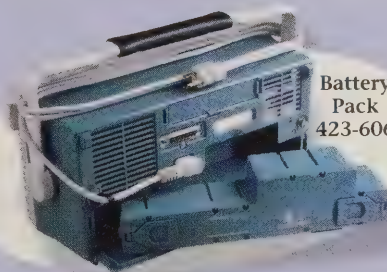
Model	TDS3012B	TDS3014B	TDS3024B	TDS3032B	TDS3034B	TDS3044B	TDS3052B	TDS3054B	TDS3064B
Bandwidth	100MHz	100MHz	200MHz	300MHz	300MHz	400MHz	500MHz	500MHz	600MHz
Channels	2	4	4	2	4	4	2	4	4
Sample Rate on Each Channel	1.25 GS/s	1.25 GS/s	2.5 GS/s	2.5 GS/s	2.5 GS/s	5 GS/s	5 GS/s	5 GS/s	5 GS/s
Maximum Record Length	10 K points on all models								
Vertical Resolution	9 Bits on all models								
Vertical Sensitivity/div	1 mV to 10 V on all models								
Vertical Accuracy	±2% on all models								
Max Input Voltage (1MOHMS)	150 V RMS CAT I on all models (300 V CAT II with standard 10X probe)								
Position Range	±5 div on all models								
BW Limit	20 MHz	20 MHz	20, 150 MHz	20, 150 MHz	20, 150 MHz	20, 150 MHz	20, 150 MHz	20, 150 MHz	20, 150 MHz
Input Coupling	AC, DC, GND on all models								
Input Impedance Selections	1 MΩ in parallel with 13 pF or 50 Ω on all models								
Time Base Range	4 ns to 10s/div	4 ns to 10s/div	2 ns to 10s/div	2 ns to 10s/div	2 ns to 10s/div	1 ns to 10s/div	1 ns to 10s/div	1 ns to 10s/div	1 ns to 10s/div
Time Base Accuracy	2 ppm on all models								
Display Monitor	Color active matrix LCD on all models								

Recommended Accessories

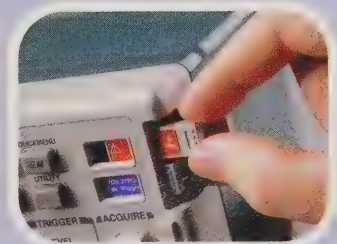
Part No.	Model	Description	Price
410-039	TDS3VID	Extended Video Application Module	\$510.00
417-713	TDS3AAM	Advanced Analysis Module	\$510.00
417-714	TDS3LIM	Limit Test Module	\$510.00
417-715	TDS3GV	Communications Module	\$405.00
409-233	WSTR0	WaveStar™ Software for Scopes	\$330.00
416-487	TDS3SDI	601 Digital Video Module	\$2,495.00
423-606	TDS3BATB	Battery Pack	\$395.00
417-716	TDS3PRT	Plug-In Thermal Printer	\$615.00
410-043	TDS3CHG	Fast Charger for Battery Pack	\$130.00
410-044	AC3000	Soft Carrying Case	\$175.00
410-045	RM3000	Rackmount Kit	\$325.00
425-070	HCTEK321	Transit Case	\$595.00



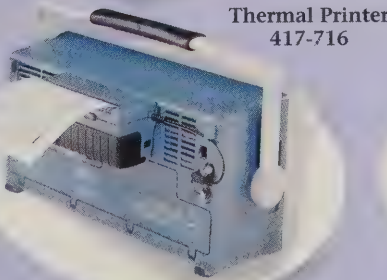
TDS3DI Digital Video Module



Battery Pack 423-606



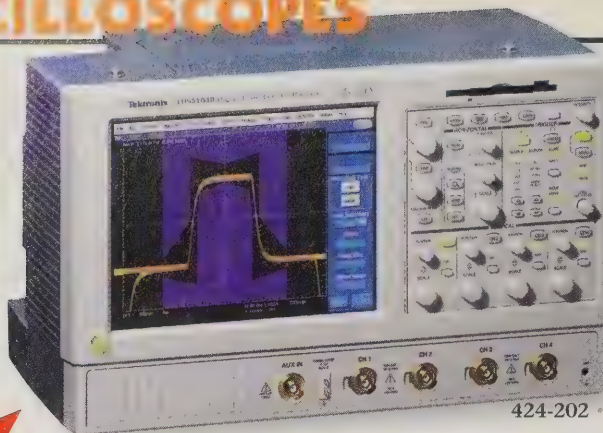
New Application & Interface Modules



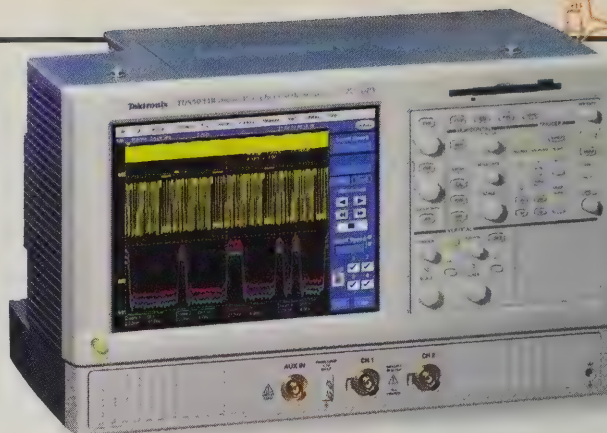
Thermal Printer 417-716



Soft Carrying Case 410-044



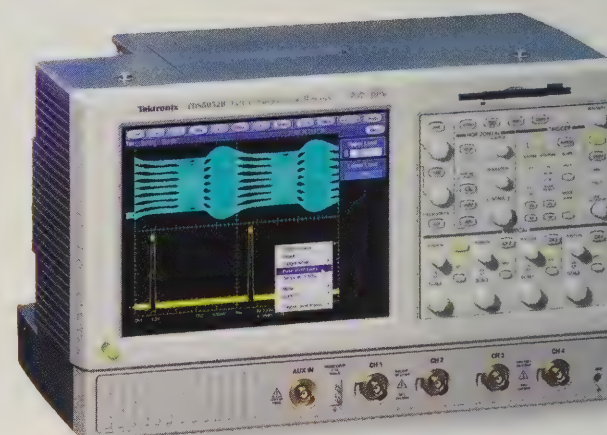
424-202



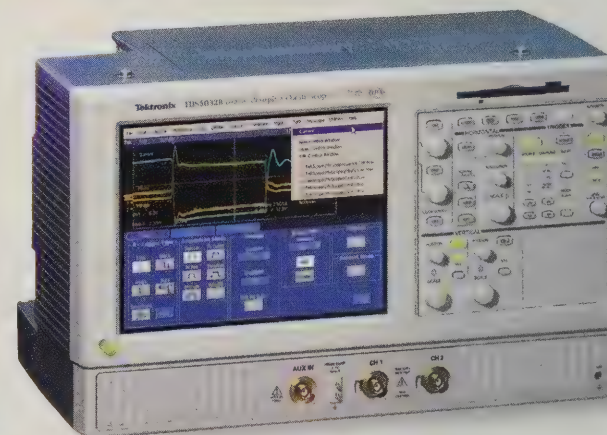
424-204



424-203



424-205



424-206

Tektronix

TDS5000B Series 1GHz, 500MHz and 350MHz, Two & Four Channel Digital Phosphor Oscilloscopes

- 5GS/s maximum real-time sample rate
- Up to 16 MB record length
- MyScope™ custom control windows
- OpenChoice™ with Windows 2000 delivers built-in networking & analysis
- Built-in CD-RW drive
- Suite of advanced triggers
- E-mail on event
- NIST-traceable certificate of calibration
- 100,000 waveform captures/second
- Mouse right-click menus
- 10.4" bright display
- Pass/Fail limit testing
- Optional built-in thermal printer

The TDS5000B DPO Series works the way you do. It's the world's easiest, most customizable midrange oscilloscope. New MyScope functionality enables you to customize the oscilloscope with all your favorite selected tools, allowing you to focus your efforts on the task at hand. Because individual MyScope files are virtually unlimited, everyone in the lab can customize the scope to work precisely like they do. And thanks to context-sensitive menu controls, using mouse right-clicks, there's practically no reason to search pull-down menus again.

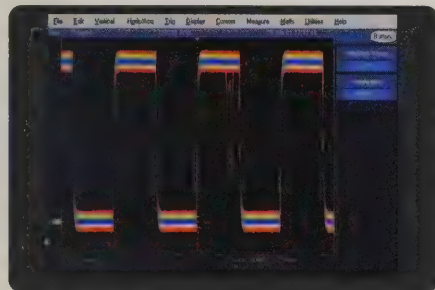
In addition to ease of use, the new TDS5000B Series delivers a wide range of bandwidths from 350 MHz to 1GHz, 5GS/s real-time sample rate, and 16 MB record length. Four features that were previously options (CD-RW drive, additional 256 MB RAM, Advance Analysis module[2A], 8M acquisition memory[2M]) are now standard — as is the ability to capture 100,000 waveforms/s and unrivaled price/performance. The TDS5000B Series provides unmatched insight into signal behavior by displaying, storing, and analyzing complex signals in real-time to enable more efficient design, debug and test of electronic devices.

The suite of advanced triggers includes: edge, video, glitch, width, runt, window, timeout, transition, setup/hold, pattern, state, delay by time, and delay by event.

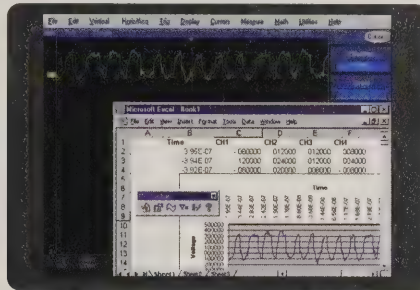
All models come complete with (1) P5050 500MHz 10x passive probe per channel, accessory pouch, front cover, mouse, user manual, TDS5000B Series product software CD-ROM, TDS5000B Series operating system restoration CD-ROM, GPIB Programmer's Reference, optional applications software CD-ROM, NIST calibrations certificate and power cord.

Part No.	Model	Description	Price
424-202	TDS5104B	1GHz, 4 Channel DPO	\$16,500.00
424-203	TDS5054B	500MHz, 4 Channel DPO	\$12,900.00
424-204	TDS5052B	500MHz, 2 Channel DPO	\$10,200.00
424-205	TDS5034B	350 MHz, 4 Channel DPO	\$9,600.00
424-206	TDS5032B	350 MHz, 2 Channel DPO	\$7,500.00
417-765	Opt 18	Add Touch-Screen Interface	\$510.00
417-766	Opt 1P	Add Built-In Thermal Printer	\$930.00
424-263	Opt FHD	Add Front Panel Removable Hard Drive	\$1,500.00
424-264	Opt DVD	Add Optical Storage Analysis Software	\$2,495.00
424-265	Opt. PWR3	Add Power Measurement Software	\$2,495.00
424-239	Opt JT3	Add Jitter & Timing Analysis Software	\$4,075.00
417-772	Opt J2	Add Disk Drive Measurement Software	\$3,085.00
417-769	P5050	500MHz 10X Probe	\$325.00
401-965	P6243	1GHz Active Probe	\$770.00

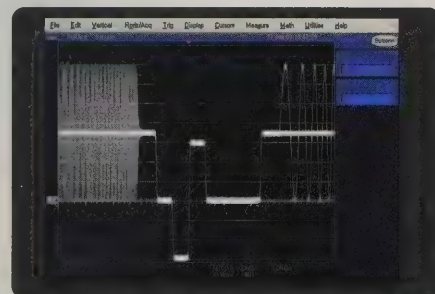
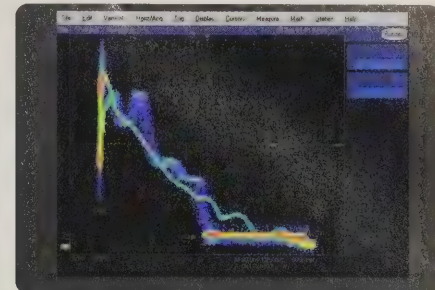
Elusive Glitch. Fast waveform capture rate, enabled by proprietary DPX™ acquisition technology, maximizes the probability of capturing elusive glitches and other infrequent events.



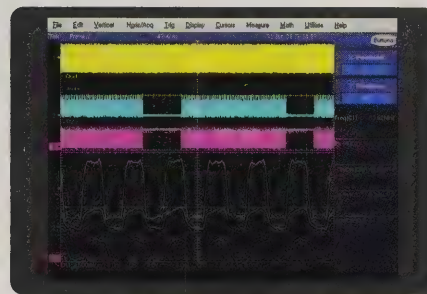
Open Windows Platform. TDS5000 series waveform display with Excel window and ActiveX toolbar.



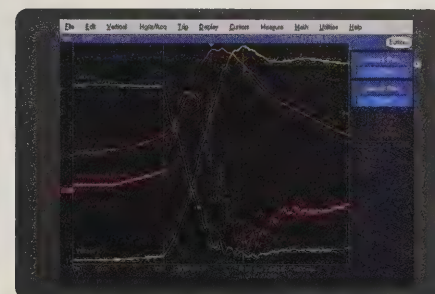
Display of current vs. voltage trajectory XY plot of the DUT. Color-grading reveals the distribution of activity for comparison against Safe Operating Area (SOA) characteristics.



Video Design. Illustration of triggering on an analog HDTV tri-level synch signal and examining horizontal blanking interval.



Embedded Design. A source synchronous, double-pumped bus. Channel 1 (yellow) is the clock signal, Channel 2 (blue) is the strobe signal and Channel 3 (pink) is the data line. The upper half of the graticule shows a long acquisition of a write cycle. The bottom half shows a zoomed-in view of a small slice of time in the upper graticule.



Power Measurements. Channel 1 (yellow, labeled Voltage) shows the turn-off voltage on the FET of a switching power supply, with current on Channel 2 (blue, labeled Current). The Math 1 waveform, M1 (red, labeled Power) is the instantaneous power resulting from the multiplication of voltage and current (Ch1 * Ch2). The Math 2 waveform, M2 (red, labeled Energy) is the result of a calculation of the integral of M1, a math-on-math operation of the TDS5000 series.

TDS5000B Series Specifications

Model	TDS5104B	TDS5054B	TDS5052B	TDS5034B	TDS5032B
Channels	4	4	2	4	2
Bandwidth	1GHz	500MHz	500MHz	350MHz	350MHz
Record Length	8M (1 ch) 4M (2 ch) 2M (4 ch)				
With Opt. 3M	16M (1 ch) 8M (2 ch) 4M (4 ch)				
Glitch Capture	1ns				
Vert. Resolution	8 bits				
Sample Mode	FastAcq, Sample, Peak Detect, Envelope, Average, Hi-Res, Waveform Database, FastFrame Acquisition				
Pre/Post Trigger	Point Selectable	Point Selectable	Point Selectable	Point Selectable	Point Selectable
GPIO/RS-232	Yes	Yes	Yes	Yes	Yes
Channels	4	4	2	4	2
Max. V. Sensitivity	1mv	1mv	1mv	1 mv	1mv
Timebase	1 with Delay Time Range	1 with Delay Time Range	1 with Delay Time Range	1 with Delay Time Range	1 with Delay Time Range
Trigger Modes	Auto, Normal, Single, Trigger after time or events	Auto, Normal, Single, Trigger after time or events	Auto, Normal, Single, Trigger after time or events	Auto, Normal, Single, Trigger after time or events	Auto, Normal, Single, Trigger after time or events
Trigger Coupling	DC, AC, Noise Rej., HF & LF Rej.	DC, AC, Noise Rej., HF & LF Rej.	DC, AC, Noise Rej., HF & LF Rej.	DC, AC, Noise Rej., HF & LF Rej.	DC, AC, Noise Rej., HF & LF Rej.
Input Impedance	1MΩ or 50Ω	1MΩ or 50Ω	1MΩ or 50Ω	1MΩ or 50Ω	1MΩ or 50Ω
CRT Size/Illuminated	10.4 in. Liquid crystal active-matrix color display	10.4 in. Liquid crystal active-matrix color display	10.4 in. Liquid crystal active-matrix color display	10.4 in. Liquid crystal active-matrix color display	10.4 in. Liquid crystal active-matrix color display
Power	100-240V47-63Hz	100-240V47-63Hz	100-240V47-63Hz	100-240V47-63Hz	100-240V47-63Hz
Size	14.2" x 17.6" x 11.35"	14.2" x 17.6" x 11.35"	14.2" x 17.6" x 11.35"	14.2" x 17.6" x 11.35"	14.2" x 17.6" x 11.35"
Weight	24.75 lbs.	24.75 lbs.	24.75 lbs.	24.75 lbs	24.75 lbs
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year
Probes	Includes 4 P5050 probes				



Tektronix

New

TPS2000 Digital Storage Oscilloscopes

Powerful Productivity from Bench to Field

- 100MHz and 200MHz bandwidths
- Digital real-time sampling technology
- Isolated Channel™ technology
- Up to 8+ hours of continuous battery operation
- Power measurement and analysis software
- FFT standard on all models
- Traditional analog-style knobs
- Autoset menu, autorange, waveform & setup memories
- Built-in context-sensitive help
- 11 automatic measurements

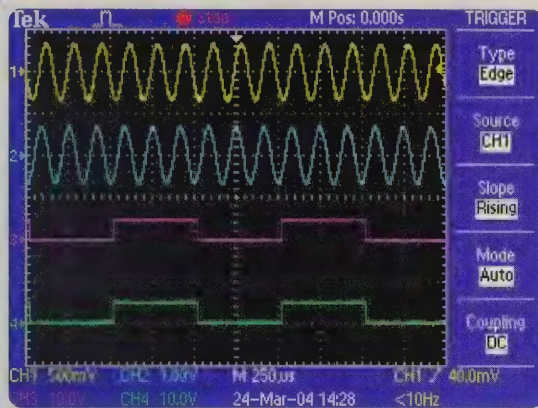
The TPS2000 Series addresses the needs of two major market segments - Advanced Electronics Applications (AEA) and Industrial Power Applications (IPA). Features include sample rates up to 2 GS/s real time, 2 or 4 fully isolated and floating channels, plus isolated external trigger. Up to 8 hours of continuous battery operation with 2 batteries installed hot-swappable for virtually unlimited freedom from an AC power source (all models come standard with 1 4-hour battery). Optional power application software offers the broadest range of power measurements at its price point. Quickly document and analyze measurement results with OpenChoice® software or integrated compactFlash mass storage. Comes complete with P2220 probes (one per channel), TPSBAT battery (1), TDSPCS1 OpenChoice software, AC adapter with

power cord, NIM/NIST traceable certificate of calibration, front protective cover, instruction manuals (1 set).

Recommended Accessories: TPS2BND Power Bundle - includes (4) P5120 probes and TPS2PWR1 power measurement software. TPS2PWR1 Power Measurement and Analysis Software - instantaneous power waveform analysis, harmonics analysis, switching loss, phase angles, dv/dt and di/dt cursors. WSTRO - WaveStar software for waveform capture, analysis, documentation and control from your PC. TPSBAT - Additional lithium-ion battery. TPSCHG - Battery charger. P5120 - 20X passive high-voltage probe. AC2100 - Soft carrying case. HCTEK321 - Hard carrying case.

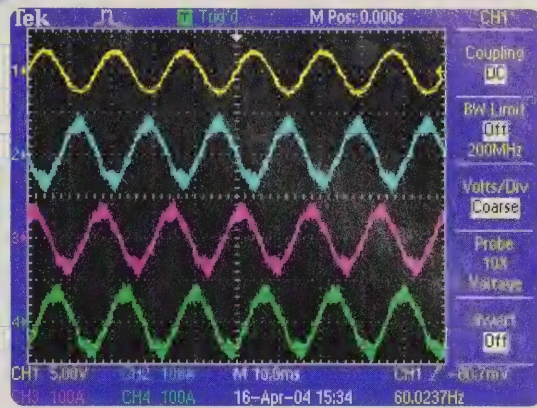


Part No.	Model	Description	Price
425-061	TPS2012	100MHz, 2 Channel DSO	\$2,990.00
425-058	TPS2014	100MHz, 4 Channel DSO	\$3,390.00
425-057	TPS2024	200MHz, 4 Channel DSO	\$3,790.00
409-233	WSTRO	WaveStar™ Software for Scopes	\$330.00
425-062	TPS2BND	Power Bundle - Probes & Software	\$1,190.00
425-066	TPS2PWR1	Power Measurement & Analysis Software	\$490.00
424-366	TPSBAT	Additional Lithium-Ion Battery	\$190.00
424-367	TPSCHG	Battery Charger	\$390.00
425-067	P5120	20X Passive Probe	\$390.00
425-069	AC2100	Soft Carrying Case	\$78.00
425-070	HCTEK321	Transit Case	\$595.00



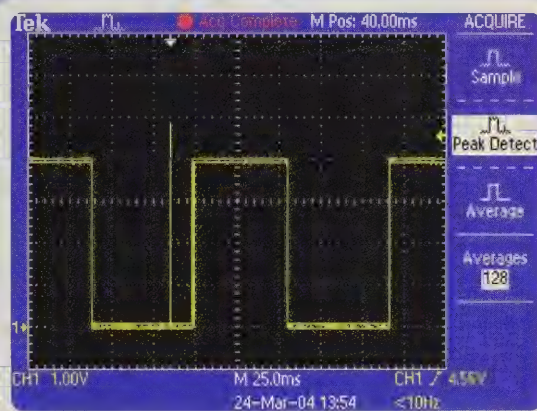
Four IsolatedChannel™ inputs and isolated external trigger input for quick accurate, affordable floating and differential measurements.

Perform three-phase power measurements to variable frequency drives.



Conduct harmonic distortion measurements with TPS2PWR1 software.

Capture elusive glitches - the first time - with digital real-time (DRT) technology.



Model	TPS2012	TPS2014	TPS2024
Isolated Channels	2	4	4
Bandwidth (MHz)	100	100	200
Sample Rate (GS/s) Per Channel	1.0	1.0	2.0
Record Length	2.5 K points		
Display (1/4 VGA LCB)	Color		
Battery Operation	Capacity for two hot-swappable battery packs. One standard battery pack offers 4-hours of battery operation. Optional second battery pack extends operation to 8-hours. Continuous battery operation is possible by hot-swapping charged batteries.		
Automatic Measurements	11		
Isolated External Trigger Input (Impedance Isolated)	Yes		
Vertical Resolution	8-bits (normal or with averaging)		
Vertical Sensitivity	2 mV to 5 V/div on all models with calibrated fine adjustment		
DC Vertical Accuracy	±3%		
Vertical Zoom	Vertically expand or compress a live waveform		
Max Input Voltage (1 M Ω)	300 V RMS CAT II at BNC signal to BNC shell, 1000 V RMS CAT II at probe tip to earth ground with optional P5120 passive, high-voltage probe		
Float Voltage	600 V RMS CAT II or 300 V RMS CAT III to BNC shell to earth ground, 1200 V RMS CATII between any two channel commons with each of the channel commons not being more than ±600 V RMS from earth ground		
Position Range	2 mV to 200 mV/div ±2 V; >200 mV to 5 V/div ±50 V		
Bandwidth Limit	20 MHz		
Linear Dynamic Range	±5 div		
Time Base Range	5 ns to 50 s/div	5 ns to 50 s/div	2.5 ns to 50 s/div
Time Base Accuracy	50ppm		
Input Impedance	1 M Ω ±2 % in parallel with 20 pF		
Input Coupling	AC, DC, GND		
Horizontal Zoom	Horizontally expand or compress a live or stopped waveform		
FFT	Standard		
RS-232, Centronics-Parallel Ports	Standard		
PC Connectivity	Standard		
Integrated CompactFlash Mass Storage	Standard		
Power Measurements	Optional package that offers instantaneous power waveform analysis, waveform analysis, harmonics analysis, switching loss, phase angles, dv/dt and di/dt cursors		

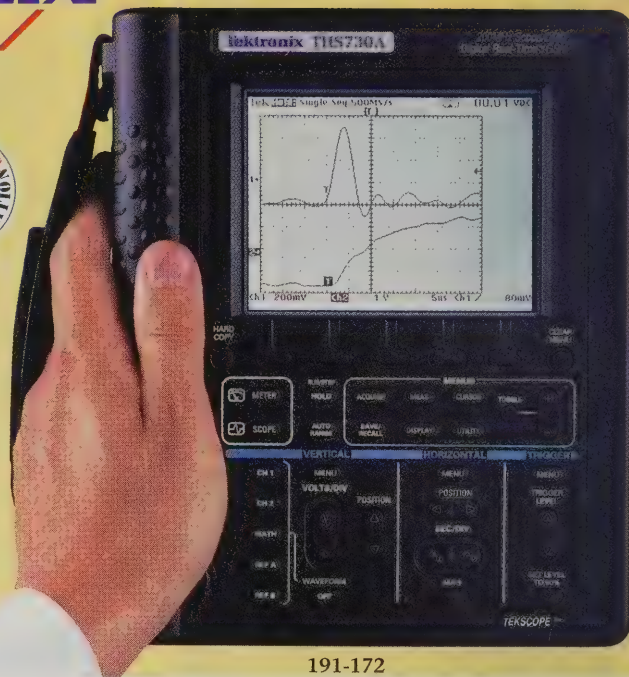


TekScope™ THS700 Series Handheld Battery Operated Oscilloscope/DMM/Power Analyzers

- 200 and 100 MHz Bandwidth
- 1 GS/s and 500 MS/s Sampling Rates per Channel
- Two Channels and Dual Digitizers
- 3-3/4 Digit DMM with Datalogger
- Extra Bright Backlit Display
- Independently Floating Isolated Scope and DMM Channels for Safety
- Full Floating Measurement Capability up to 600 VRMS
- Advanced Trigger - Delay, Pulse, and Video (Line Count and Field Select)
- 21 Automatic Measurements
- RS-232 Programmability/Communications
- NiCd Battery and AC Adapter
- External Trigger
- Roll Mode
- 8 ns Glitch Capture
- Deluxe Soft Carrying Case



The TekScope THS700 Series Scope/DMM combines a full-featured real-time oscilloscope with a True RMS digital multimeter in rugged, battery-operated instruments. Scope and meter modes can operate simultaneously and independently on the same or separate signals. The high-resolution, backlit display and pop-up menus make it easy for users to take full advantage of the instrument's many features. These include cursors, video trigger, voltage and resistance measurements, and storage of waveforms, data, and instrument setups. In addition, they offer the most comprehensive triggering capabilities - external trigger and extensive triggering including delay, pulse width, and video.



191-172

TekScope™ THS730A & THS720A

- Model THS720A has a 100MHz bandwidth and a 500MS/sec sampling rate
- Model THS730A has a 200MHz bandwidth and a 1GS/sec sampling rate

Part No.	Model	Description	Price
191-172	THS730A	200MHz Digital Real-Time Scope	\$3,990.00
404-407	THS720A	100MHz Digital Real-Time Scope	\$3,490.00
400-845	THS7CHG	External Fast Charger (AC or 12V)	\$390.00
400-847	THS7BAT	Rechargeable Battery	\$130.00
400-846	THS7HCA	Hard Carrying Case	\$355.00
409-233	WSTR0	WaveStar™ Software for Scopes	\$330.00
401-080	P5102	10X High Voltage Probe	\$290.00

*Product is not returnable if the software seal is broken.

TekScope™ THS720P

- Field or Bench Electronic Troubleshooting
- Floating (Nongrounded) System Measurements
- Industrial Electronic Equipment Troubleshooting
- Power Quality Surveys

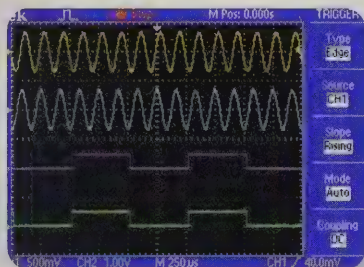
The THS720P TekScope IsolatedChannel Scope/DMM is ideal for electrical/power electronics applications.

Part No.	Model	Description	Price
403-563	THS720P	100MHz Digital Real-Time Scope	\$3,750.00
400-845	THS7CHG	External Fast Charger (AC or 12V)	\$390.00
400-847	THS7BAT	Rechargeable Battery	\$130.00
400-846	THS7HCA	Hard Carrying Case	\$355.00
409-233	WSTR0	WaveStar™ Software for Scopes*	\$330.00

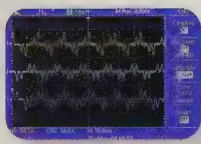
*Product is not returnable if the software seal is broken.

Model#	THS730A	THS720A	THS720P
Bandwidth	200MHz	100MHz	100MHz
Risetime	1.8ns	3.5ns	3.5ns
Max. Sample Rate per Channel	1GS/S	500MS/S	500MS/S
Max. Effective Storage Bandwidth	200MHz	100MHz	100MHz
Record Length	2.5K	2.5K	2.5K
Glitch Capture	8ns	8ns	8ns
Save Reference	2	2	2
Vert. Resolution	8 bits	8 bits	8 bits
Sample Modes	Peak Detect, Sample, Average, Envelope	Peak Detect, Sample, Average, Envelope	Peak Detect, Sample, Average, Envelope
Pre/Post Trigger	Point Selectable	Point Selectable	Point Selectable
Plotter Output	RS232	RS232	RS232
GPIO/RS-232 Option	RS232 Standard	RS232 Standard	RS232 Standard
Channels	2	2	2
Max. V. Sensitivity	5mv/div	5mv/div	5mv/div
Max. Sweep Speed	5ns	5ns	5ns
Timebases	1	1	1
Timebase Ranges: A B	5ns-5s	5ns-5s	5ns-5s
Trigger Modes	Auto, Normal	Auto, Normal	Auto, Normal
Trigger Source	Ch1, 2	Ch1, 2	Ch1, 2
Trigger Coupling	DC, Noise, HF & LF Rej.	DC, Noise, HF & LF Rej.	DC, Noise, HF & LF Rej.
Input R/C	1MΩ/15pF	1MΩ/15pF	1MΩ/15pF
CRT Size/Illuminated	4.7", 320 x 240 pixels Backlit	4.7", 320 x 240 pixels Backlit	4.7", 320 x 240 pixels Backlit
Power Measurements	No	No	Yes
Size H x W x D	8.5" x 6.9" x 2"	8.5" x 6.9" x 2"	8.5" x 6.9" x 2"
Weight	3.2 lbs.	3.2 lbs.	3.2 lbs.
Warranty	3 Years	3 Years	3 Years
CRT Readout	Yes	Yes	Yes
Cursor Measurement	Yes	Yes	Yes
Additional Features	21 Automatic Measurements	21 Automatic Measurements	21 Automatic Measurements

4 isolated channels. 8 hours. 8 lbs.
Incredible accuracy. Boundless productivity.

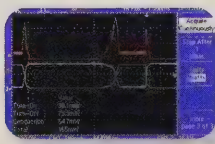


© Tektronix, Inc. 2005. All rights reserved. TEKTRONIX and the Tektronix logo are registered trademarks of Tektronix, Inc.



4 isolated channels

for quick, accurate, affordable floating and differential measurements



Power analysis package

with switching loss, harmonic distortion measurements, and dv/dt and di/dt cursor capabilities



8+ hours in 8 pounds

hot-swappable batteries and a light form factor make long days easy

Download Today!

- **A New Approach to Quick, Accurate, Affordable Floating Measurements Technical Brief**
- **Be Sure to Capture the Complete Picture with Digital Real-Time (DRT) Sampling Technology Technical Brief**
- **TPS2000 Series Oscilloscopes Product Demo**

For more information visit www.contacteast.com

See Pages 82 & 83

The Tektronix TPS2000 Series. Powerful productivity that extends from the bench to the field.

Industrial power design and test requires a full-featured oscilloscope that can truly go the distance, from the power lab to the field. Tektronix offers the only all-in-one solution. With 4 isolated channels and external trigger input, you're covered. And with 8+ hours of battery life in an 8-pound package, you're good to go. Add to that the ability to capture elusive glitches and anomalies the first time, using digital real-time technology on all 4 channels simultaneously, with power measurement capabilities unmatched at this price—and you've got the single tool that dramatically enhances your productivity, wherever you are.

Tektronix
Enabling Innovation

ScopeMeter® 190 Series 200MHz, 100MHz & 60MHz High-Performance DSOs with DMM

Highly Portable Test Tools Have Fully Integrated DSO and True RMS DMM

- Dual input — 200, 100 or 60 MHz
- Up to 2.5 GS/s sampling per input
- Large, high-resolution color or monochrome display
- Digital persistence for analyzing complex waveforms (190C)
- Fast display update for seeing dynamic changes instantly
- Automatic capture and replay of 100 screens
- TrendPlot paperless recorder for trend analysis up to 22 days
- 1000 V independently floating isolated inputs
- Vpwm function for frequency inverter and motor drive applications
- 1000 V CAT II and 600 V CAT III certified
- Five hour rechargeable Ni-MH battery pack
- Models 196C & 199C now feature FFT

The ScopeMeter 190 Series of high performance oscilloscopes offer specifications usually found on top-end bench instruments. With up to 200 MHz bandwidth, 2.5GS/s real-time sampling and a deep memory of 27,500 points per input, they're ideal for engineers who need the full capabilities of a high-performance oscilloscope in a handheld, battery powered instrument.

See what's really happening

With the 2.5 GS/s sampling rate, you can see what really happens, with 400 ps resolution. Each input has its own digitizer, so you can simultaneously acquire two waveforms and analyze them with the highest resolution and detail. If an anomaly flashes by on the screen, just press the Replay button to see it again.

Easier identification of traces, everywhere

The full-color display makes identification of individual waveforms easier, particularly when displaying large amplitude or multiple overlapping waveforms. On-screen color labels, measurements and warnings are clearly linked to specific waveforms.

See dynamic digital behavior instantaneously

The Digital Persistence mode (190C) helps find anomalies and analyze complex dynamic signals by showing the waveforms' amplitude distribution over time. Digital Persistence uses multiple intensity levels and user selectable decay time. The fast display update rate that's standard on all models reveals signal changes instantaneously, which is useful for adjusting systems under test.

Automatic capture and replay of 100 screens

Scope users know how frustrating it is to see a one-time anomaly flash by, never to be seen again. Not with the ScopeMeter 190 Series! Now you can look back in time, though the last 100 screens, with a touch of the replay button. The past screens can be displayed "frozen" or in real-time.

Deep memory for high-resolution ScopeRecord™ and TrendPlot™

The ScopeRecord memory stores 27,500 points per input, for high resolution recording of waveform events up to 48 hours, and captures fast intermittents and glitches as short as 50 ns. This continuous roll mode also stores events like motion profiles, UPS-, power supply- and motor start-ups. In Trendplot or "paperless recorder" mode, you can plot the minimum, maximum, peak and average measurement (DMM or Automatic Scope) values over time —up to 22 days. The two inputs can plot any combination of volts, temperature, frequency and phase with time and date stamp to help lead you to the cause of those faults quickly.

Waveform Pass/Fail Testing

Waveform reference (190B or 190C) allows an acquired trace to be stored and designated as a reference trace for visual comparisons, or for automated pass/fail testing (190C only).

All models measure 10.1" x 6.6" x 2.5", weigh 4.4 lbs., and come complete with manual, NiCad battery pack, AC adapter/charger, probe set, probe accessories and a 3-year warranty. Available with or without NIST-traceable certificate of calibration.

Part No.	Model	Description	Price
417-791	199C	200MHz Color Scopemeter	\$2,999.00
417-793	199C	200MHz Color Scopemeter with Certificate of Calibration	\$3,134.00
417-792	196C	100MHz Color Scopemeter	\$2,699.00
417-794	196C	100MHz Color Scopemeter with Certificate of Calibration	\$2,824.00
420-720	196B	100MHz Scopemeter	\$2,345.00
420-730	196B	100MHz Scopemeter with Certificate of Calibration	\$2,531.00
420-722	192B	60MHz Scopemeter	\$1,999.00
420-732	192B	60MHz Scopemeter with Certificate of Calibration	\$2,287.00
412-513	SCC190	Software, Case & Cable for Scopemeters	\$415.00

Model
199C



190 Series Specifications

Model	199C	196C	196B	192B
Bandwidth	200MHz	100MHz	100MHz	60MHz
Max. real-time sample rate	2.5GS/s	1GS/s	1GS/s	500MS/s
LCD Display	Full Color	Full Color	Monochrome	Monochrome
Persistence	Digital Persistence	Digital Persistence	Persistence on/off	Persistence on/off
Inputs and digitizers	2 plus external/DMM input			
Independently floating isolated inputs	Up to 1000V between inputs, references and ground			
Timebase range	5ns-2min/div			10ns-2min/div
Input sensitivity	5mV-100mV/div			
Trigger types	Connect-and-View, free run, single shot, edge, delay, video, selectable pulse width and external			
Glitch capture	50ns			
Cursors & Zoom	Yes			
Scope measurements	7 cursor + 24 automatic			
Max. record length	27,500 pts per input in ScopeRecord mode 1,000 pts per input in Scope mode			
Capture last 100 screens	Automatic with replay capability			
Dual input TrendPlot	Yes with Cursors and Zoom			
Memory for screens/setups	10 screens and setups			
Memory for recording	Two, each can store 100 scope screens, a ScopeRecord, or a TrendPlot			
PC/Printer interface	With optional kit			
Built-in DMM Functions				
True RMS AC Volts	500mV-1250V (1MHz bandwidth)			
DC Volts	500mV-1250V			
True RMS AC + DC	500mV-1250V (1MHz bandwidth)			
Resistance	500-30Mohms			
TrendPlot	Yes (with time and date stamp)			



Industrial ScopeMeter® 120 Series 40 MHz and 20MHz DSO's with DMM

Combines a Scope, DMM and Recorder—the Most Frequently Used Service Tools

- Two 5,000-count true-rms digital multimeters
- A dual-input TrendPlot™ recorder
- Connect-and-View™ hands-off operation
- Cursors (Model 124)
- Shielded test leads for oscilloscope, resistance and continuity measurements
- 10:1 Voltage Probe included with Model 124 for reduced circuit loading
- Up to seven hours battery operation
- 600 V CAT III safety certified
- Rugged compact case

The compact ScopeMeter 120 Series is the rugged solution for industrial troubleshooting and installation applications. It's a truly integrated test tool, with oscilloscope, multimeter and "paperless" recorder in one affordable, easy-to-use instrument. Find fast answers to problems in machinery, instrumentation, control and power systems.

A three-in-one tool

ScopeMeter 120 Series combines a 40 or 20 MHz dual input digital storage oscilloscope, two true-rms digital multimeters and a dual input TrendPlot recorder all in a compact, battery powered instrument.

Connect-and-View triggering for an instant, stable display

Fluke's unique Connect-and-View recognizes signal patterns and automatically sets up correct triggering. It provides a stable, reliable and repeatable display of virtually any signal without touching a button. Signal changes are instantly recognized and settings adjusted for a stable display once again.

Use TrendPlot to help find intermittents, fast

You may not be around to see it - your Fluke ScopeMeter will. In this "paperless recorder" mode, you can plot the minimum and maximum peak values and average over time - up to 16 days. The two inputs can plot any combination of volts, amps, temperature, frequency and phase - with time and date stamp - to help lead you to the cause of those faults quickly

Battery powered mobility

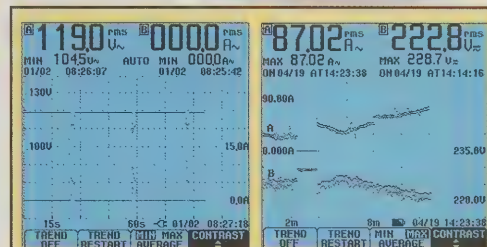
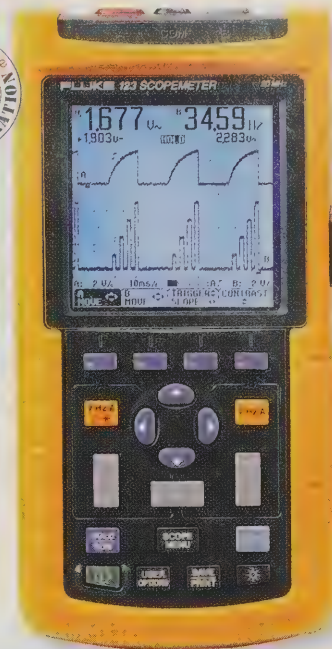
Up to seven hours of battery operation frees you from mains outlets for true on-the-move working. The handheld format and the weight of just 1.2 kg, make the instrument easy to carry and to fit comfortably in your hand. The rugged and drop proof case assures long life and reliable operation in the harshest industrial environments.

Safety certified

The ScopeMeter 120 is safety certified for measurements on Cat III - 600Vrms industrial power systems with the included test leads. Via the optically isolated RS232 interface the ScopeMeter 120 can be safely connected to a printer for direct print out or a PC for later analysis and documentation with FlukeView software. Both models measure 9" x 4.5" x 2", weigh 2.5 lbs. and come complete with manual, test leads with alligator and hook clips, rechargeable battery pack with AC line adapter, charger, and (2) shielded banana to BNC adapters. 3-year warranty.

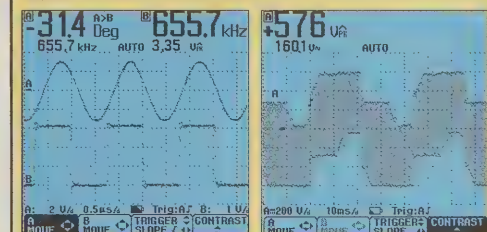
Part No.	Model	Description	Price
404-620	123	123 20 MHz Scopemeter	\$1,199.00
405-523	123	123 Scopemeter with Certificate of Calibration	\$1,304.00
404-621	123S	123S Scopemeter w/SCC120 Kit	\$1,509.00
420-724	124	124 40 MHz Scopemeter	\$1,499.00
420-734	124	124 Scopemeter with Certificate of Calibration	\$1,614.00
420-723	124S	124 Scopemeter w/ SCC120 Kit	\$1,799.00
404-622	STL120	Model STL120, Shielded Test Leads (pkg/2)	\$105.00
404-623	DP120	20MHz Differential Probe	\$450.00
404-627	ITP120	Model ITP120, External Trigger Probe	\$225.00
404-629	BP120	Model BP120, Battery Pack	\$45.00
404-630	SCC120	Model SCC120, Option Kit (Case, RS232 cable, Software)	\$310.00
404-631	C120	Model C120, Hard Carrying Case	\$60.00
404-632	C125	Model C125, Soft Carrying Case	\$30.00

Specifications	123	124
Bandwidth	20MHz	40MHz
Channels	2	2
Max. Repetitive Sample Rate	1.25GS/s	1.25GS/s
Record Length	512 bytes	512 bytes
Video Triggering	Yes	Yes
Vertical Resolution	8 bits	8 bits
Max. Vert. Sensitivity	1mv	1mv
Timebase Range	20ns-60s	10ns-60s
Pre & Post Trigger (-10 to +10 div)	Yes	Yes
Trigger Source	A, B and opt. Ext. Trig. Pod	
Envelope & Variable Persistence Display	Yes	Yes
Input R/C	1M Ω /25pF	
CRT Size/Backlit	4.7" diag/Yes	
40ns glitch capture	Yes	Yes
Measure Menu	Yes	Yes
Continuous Autoset	Yes	Yes
Automatic Setup Measurements	26	26
Cursor Measurements	No	Yes
Screen Memories	2	2
Waveform Memories	0	0
Setup Memories	10	20
Waveform Math (+, -, x, integrate, filter)	No	No
RS-232 Interface Printer & PC	Yes	Yes
PC Software & Cable	Optional	
Hard Carrying Case	Optional	
Built-in DMM Functions		
True RMS AC Volts	500mV-1250V	
DC Volts	500mV-1250V	
Resistance	500-30M Ω	
Frequency	1Hz-40MHz	
dBm	16 settings	
TrendPlot	2 Channels with Time & Date Stamp	



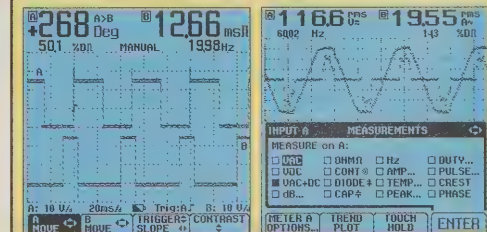
The TrendPlot mode easily captures & displays voltage sags, with date & time stamp.

TrendPlot display with grayscale.



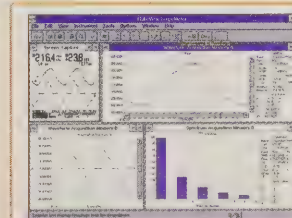
Simultaneous display and measurement of two unlike waveforms.

Checks & troubleshoots AC & DC motor drives.



2 channel control phase measurement.

You can manually override Connect and View for user-selectable measurement.



Fluke View software for Windows (included with Scopemeter 123S or available in option SCC120) Allows you to document, archive and analyze collected waveforms and data.



BK PRECISION

30MHz Dual-Trace Analog Scope

Comes with two 10:1 probes, instruction manual, and two-year warranty.

Part No.	Model	Description	Price
122-476	2120B	30MHz Dual-Trace Oscilloscope	\$549.00

Model 2120B Specifications

Bandwidth: 30MHz. Risettime: 17.5ns. Channels/Traces: 2/2. Max. Vertical Sensitivity: 1mV/div. Max. Sweep Speed: .1µs. Timebase Range: .1µs-2s. Trigger Modes: Auto or Normal. Trigger Sources: CH 1, CH 2, External, Line, Alt. Trigger Coupling: AC, TV H, TV V. Input R/C: 1MΩ/35pF. CRT Size: 8x10cm non-illuminated. Power: 115/230V, 50/60Hz. Size: 14.5" x 7" x 17.3". Weight: 17.2 lbs.

HITACHI

20MHz Dual-Trace Analog Scope

Comes with probes, power cable, manual and 3-year warranty.

Part No.	Model	Description	Price
400-325	V252	20MHz Scope	\$577.50

Model V252 Specifications

Bandwidth: 20MHz. Risettime: 17.5ns. Channels/Traces: 2/2. Max. Vertical Sensitivity: 1mV/div. Max. Sweep Speed: 100ns. Timebases: 1. Ranges: .2µs-2s. Trigger Modes: Auto, Normal, TV H, TV V. Trigger Sources: Ch 1, Ch 2, External, Line. Trigger Coupling: AC. Input R/C: 1MΩ/25pF. CT Size: 8 x 10cm nonilluminated. Power: 100/120/220/240V, 50/60Hz. Size: 12.2" x 5.1" x 14.5". Weight: 13.2 lbs.

Link Instruments

Digital Storage Oscilloscope

Takes Advantage of Your Existing Laptop or PC to Provide Superior Functionality and Ease of Use at the Lowest Cost

- 2 channels
- 60 Mhz bandwidth
- Waveform and set-up memory
- NIST certificate available
- USB and parallel port interfaces

Designed and built in the USA, the DSO-2101M-USB delivers a full-featured oscilloscope for today's laptop equipped mobile professionals and field service engineers. At only 24 ounces, the unit is a nearly transparent addition to any laptop bag or field service kit. With a near zero footprint (0.05 sq ft), this unit frees valuable lab and workbench space for both laptop and desktop PC users.

True 100MSa/s sampling on each channel with best in class 32.7K point capture buffers provide superior signal analysis in both detail and duration. On-board high speed memory and advanced FPGA design enable advanced features, including 50MHz FFT-Spectrum Analysis with up to 16,384 bins, pulse width + pulse count triggering, 51 automatic measurements, and pass/fail testing on up to 10 parameters.

Part No.	Model	Description	Price
420-785	DSO-2102M-USB	Digital Storage Oscilloscope	\$655.00

HITACHI

Easy Operation Analog O'Scope

- Fast measurements with cursors
- Simple interface

Solid basic analog oscilloscopes with two input channels and one external trigger input. Provides the fundamentals in waveform analysis, easy operation, quality, reliability, and performance. Microprocessor controlled trigger lock provides stable locks on even complex waveforms after hold off time adjustment. Autoranging sweep times optimize displayed wave-form. The Hitachi scopes come with two probes with 1.5 meter leads and operations manual. 10.8 x 5.1 x 14.1", 13.2 lbs. Three year warranty.

Part No.	Model	Description	Price
163-217	VC-1565	O'Scope, 100MHz	\$1,830.00
400-329	VC-695	O'Scope, 60MHz	\$1,610.00

Specifications	VC-1565	VC-695
Bandwidth/Channels	100MHz/2	60MHz/2
Max sweep rate/division	5nS	5nS
Max sensitivity/division	2mV	2mV
Trigger modes	Auto, Norm, TV-V, TV-H, Single	
Delayed sweep	X	X
Cursor measurements	ΔV, ΔT, 1/ΔT	

GW INSTEK

Basic Low Cost Analog O'Scope

- Electronics repair
- Students and teachers
- Dual channel

Solidly built workhorses which provide all the basic test functions with an easy-to-use front panel and big, bright CRT. You get two channels, 1mV/DIV sensitivity, channel 1 output, TV synchronization, trigger level lock, ALT trigger, Z axis input, external trigger, hold-off and more.

The scopes have handles which are adjustable as tilt stands. They come with two 10X/1X switchable probes and user manual. Operate on 100-230VAC at 50/60Hz (switchable). 5.9 x 12.2 x 17.8", 3.75 lbs. One year warranty.

Part No.	Description	Price
13-653	Analog O'scope, 50MHz	\$790.00
13-622	Analog O'scope, 20MHz	\$460.00

Specifications	13-653	13-622
Channels and Bandwidth	2 x 50 MHz	2 x 20MHz
Vertical System: Sensitivity	1mV-2mV/DIV ±5%, 5mV-5V/DIV ±3%	
Rise Time	7nS	17.5nS
Signal delay line	Permits viewing leading edge of displayed waveform (13-653 only)	
Trigger Sources	CH1, CH2, ALT, LINE, EXT	
X/Y Operation (lissajous)	5mV-5V/DIV DC-1MHz	5mV-5V/DIV DC-2MHz
Z axis	Input impedance 5kΩ, DC-5MHz above 3Vp-p	

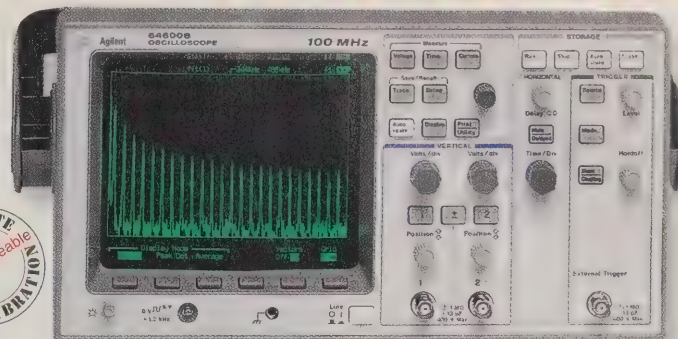


54600-Series 100MHz, Two & Four Channel Digital Scopes

The Feel of Analog and the Power of Digital

- Analog look and feel
- Glitch detection
- Automatic and cursor-based measurements of frequency, time and voltage
- Optional Add-on interface and enhancement modules for hard copy and remote programming

These scopes preserve the familiar look and feel of an analog scope while delivering the power of fast, flexible digital technology. The real-time vector display mode makes your signal easier to see. Slowly changing portions of waveforms appear brighter on the display, while rapidly changing portions appear dimmer. Pretriggering lets you look back in time to see what was going on before the trigger event occurred. Autoscale sets voltage, time and trigger parameters to deliver a useful display instantly. Autostore displays the current waveform at full brightness and previous waveforms at half brightness, so you can see signal



trends. The **MegaZoom®** feature allows you to display the entire waveform. The simple pan-and-zoom display makes it easy to scroll through captured data to find critical details. Both models come complete with operating and service guide, two 10X probes and 3-year warranty. In addition, both models come with built-in RS-232 and Centronics interfaces.

Part No.	Model	Description	Price
416-613	54624A/ABA	100MHz Digital Scope, 4 Channel	\$5,218.00
416-611	54622A/ABA	100MHz Digital Scope, 2 Channel	\$3,490.25

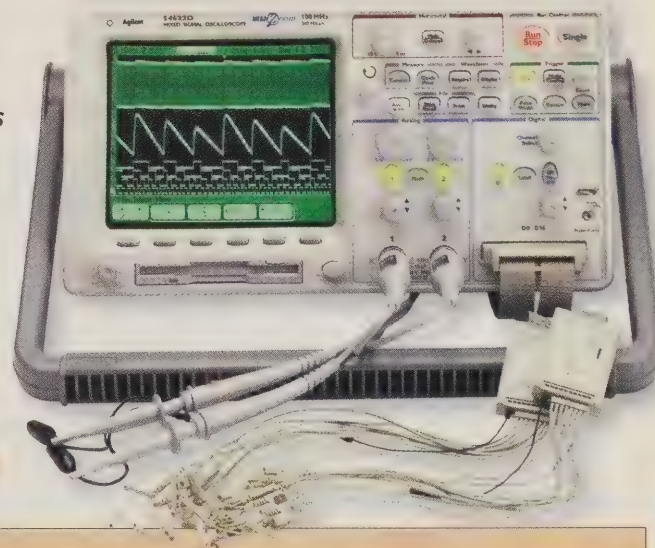
54600-Series 100MHz, Mixed Signal Scope

Mixed Signal Display Let's You Analyze Critical Signal Relationships

- Simultaneous scope and logic analyzer measurements
- 2M MegaZoom deep memory
- Edge, pattern, pulse, sequence, duration and I²C triggering
- Measurement displayed with 32 levels of intensity

Seamlessly integrates the detailed signal analysis of a 2-channel scope with the multichannel timing measurements of a 16 channel logic analyzer, plus deep memory and MegaZoom® technology. Powerful triggering isolates important events and signal relationships. This combination allows you to solve problems that a normal scope can't address such as correlating a serial data sequence with variations in an analog signal or triggering on a mix of digital bus states and analog signal details. Comes complete with user's guide, service manual, two 10X probes, 16 channel logic input probe assembly and 3-year warranty.

Part No.	Model	Description	Price
416-612	54622D/ABA	100MHz Mixed Signal Scope	\$5,489.25



54600-Series Specifications

Model	54624A	54622A	54622D
Bandwidth	100MHz	100MHz	100MHz
Risetime	3.5ns	3.5ns	3.5ns
Channels	4	2	2+16
Max Sample Rate per Channel	200MS/s	200MS/s	200MS/s
Record Length	2M	2M	2M
Glitch Capture	5ns	5ns	5ns
Vertical Resolution	8 bits	8 bits	8 bits
Pre & Post Trigger	Point Selectable	Point Selectable	Point Selectable
HP-IB/RS-232 options	RS-232 standard	RS-232 standard	RS-232 standard
Max. Vert. Sensitivity	1mv	1mv	1mv
Trigger Modes	Auto, Normal Single, TV	Auto, Normal Single, TV	Auto, Normal Single, TV
Trigger Source	1, 2, 3, 4, Line, Ext.	1, 2, Line, Ext.	All channels, Line
Trigger Coupling	AC, DC Noise, HF & LF Rej.	AC, DC Noise, HF & LF Rej.	AC, DC Noise, HF & LF Rej.
Input R/C	1MΩ/14pF	1MΩ/14pF	1MΩ/14pF
CRT Size/Illuminated	7", 640 x 480 pixels Non-Illuminated	7", 640 x 480 pixels Non-Illuminated	7", 640 x 480 pixels Non-Illuminated
Power	100-240V 48-440Hz	100-240V 48-440Hz	100-240V 48-440Hz
Size H x W x D	6.7" x 13.8" x 12.5"	6.7" x 13.8" x 12.5"	6.7" x 13.8" x 12.5"
Weight	14 lbs.	14 lbs.	14 lbs.
Additional Features	MegaZoom Technology	MegaZoom Technology	Built-in 16 Channel Logic Analyzer

New



EXTECH
INSTRUMENTS

5MHz Handheld MultiScope™ Kit

Graphical Storage Scope & True RMS DMM

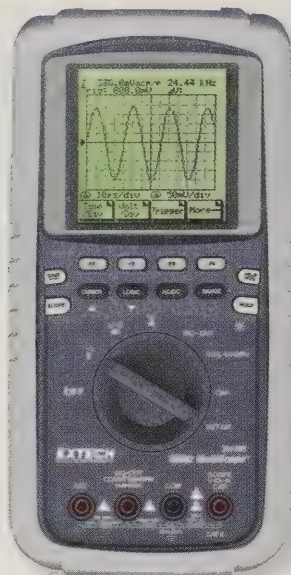
- DC to 5MHz bandwidth & 25 MSPS sampling rate
- Vertical sensitivity of 10mV to 200V per division with 14 divisions displayed
- Single channel with 1Mohm input impedance
- Horizontal sweep rate of 125ns to 2s per divisions with 23 divisions
- Adjustable trigger level & slope 160 x 160 pixel high-density graphical display with EL backlight
- Single shotmode with waveform expansion or compression
- Cursor function measures time or voltage to point differences on a waveform
- CAT II - 1000V
- 4000 count dual display with analog bar graph
- True RMS AC voltage & current
- DMM functions include: resistance, capacitance, frequency, dBm, diode & continuity
- V square wave output is adjustable from 2.5Hz to 78kHz
- Graphical logic analyzer function max/min/avg with time sampling and graphical plot
- High/low comparator feature in the voltage, resistance or auxiliary functions
- Frequency counter function with simultaneous frequency, period & rpm display

Kit includes protective holster, built-in stand, windows registered Windows® 95/98 compatible software, RS-232 cable, 6 AA batteries, fuses, test leads and alligator clips. Optional rechargeable NiCad battery pack and AC adapter/recharger recommended. One year manufacturer's warranty.

Part No.	Model	Description	Price
426-115	381285	5MHz Handheld Multiscope Kit	\$399.00
425-078	381285-NIST	Handheld Multiscope with NIST certificate	\$524.00
408-736	381279	NiCad Battery & AC Charger	\$39.00
412-500	381299	Vinyl Carrying Case w/Shoulder Strap	\$19.00
180-605	381277	Temperature Adapter	\$29.00
408-695	381276	Automotive Pickup Adapter	\$29.00

5MHz Handheld Multiscope Kit Specifications

	Ranges	Max. Resolution	Basic Accuracy (%rdg + digits)
DC Voltage	400mV to 1000V	0.1mV	±(0.3% + 10d)
AC Voltage (True RMS)	400mV to 700V	0.1mV	±(0.75% + 10d)
DC Current	400mA to 20A	10µA	±(1.2% + 10d)
AC Current (True RMS)	400mA to 20A	10µA	±(1.2% + 10d)
Resistance (Ω)	400Ω to 40MΩ	0.1Ω	±(0.5% + 10d)
Capacitance	40nF to 100µF	1pF	±2.0%
Frequency	100Hz to 5MHz	0.1Hz	±0.1%
Signal Output	2.5Hz to 78kHz	1Hz	—



BK PRECISION

30MHz Dual-Trace Analog Scope

Comes with two 10:1 probes, instruction manual, and two-year warranty.

Part No.	Model	Description	Price
122-476	2120B	30MHz Dual-Trace Oscilloscope	\$549.00

Model 2120B Specifications

Bandwidth: 30MHz. Risettime: 17.5ns. Channels/Traces: 2/2. Max. Vertical Sensitivity: 1mV/div. Max. Sweep Speed: 1µs. Timebase Range: 1µs-2s. Trigger Modes: Auto or Normal. Trigger Sources: CH 1, CH 2, External, Line, Alt. Trigger Coupling: AC, TV H, TV V. Input R/C: 1MΩ/35pF. CRT Size: 8x10cm non-illuminated. Power: 115/230V, 50/60Hz. Size: 14.5" x 7" x 17.3". Weight: 17.2 lbs.



HITACHI

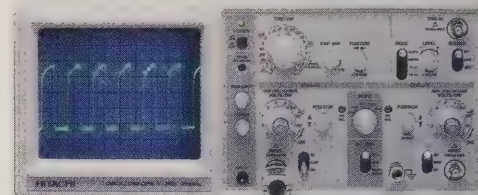
20MHz Dual-Trace Analog Scope

Comes with probes, power cable, manual and 3-year warranty.

Part No.	Model	Description	Price
400-325	V252	20MHz Scope	\$577.50

Model V252 Specifications

Bandwidth: 20MHz. Risettime: 17.5ns. Channels/Traces: 2/2. Max. Vertical Sensitivity: 1mV/div. Max. Sweep Speed: 100ns. Timebases: 1. Ranges: 2µs-2s. Trigger Modes: Auto, Normal, TV H, TV V. Trigger Sources: Ch 1, Ch 2, External, Line. Trigger Coupling: AC. Input R/C: 1MΩ/25pF. CT Size: 8 x 10cm nonilluminated. Power: 100/120/220/240V, 50/60Hz. Size: 12.2" x 5.1" x 14.5". Weight: 13.2 lbs.



LEADER

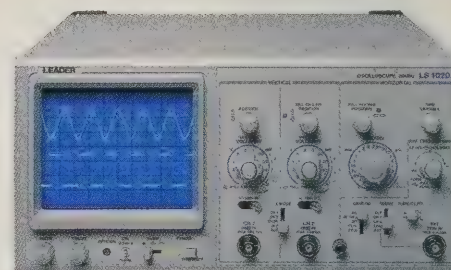
20MHz Dual Trace Analog Scope

This 20MHz, dual-channel scope features: extensive triggering controls, vertical input sensitivity of 1mV/div., and Channel 1 output. Measures 12.2" x 5.9" x 14.7", weighs 18.7 lbs. and comes complete with manual, two 10X/1X switchable probes, and a 2-year warranty.

Part No.	Model	Description	Price
410-783	LS8022	20MHz Dual Trace Scope	\$625.00

Model LS8022 Specifications

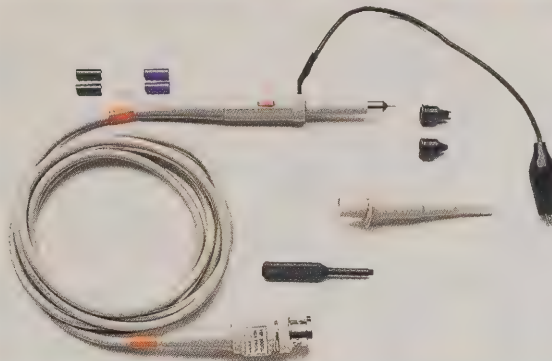
Bandwidth: 20MHz. Risettime: 17.5ns. Channels/Traces: 2/2. Max. Vertical Sensitivity: 1mV. Max. Sweep Speed: 50ns/div. Timebases: 1. Timebase Range: 0.1µs-0.5s. Trigger Mode: Auto, triggered. Trigger Sources: Ch. 1, Ch. 2, Alt, Line, Ext. Trigger Coupling: AC, DC, HF-Rej, TV-V, TV-H. Input R/C: 1MΩ/27pF. CRT Size/Illuminated: 8 x 10cm/ Illuminated. Power: 100, 120, 230VAC 50/60Hz.



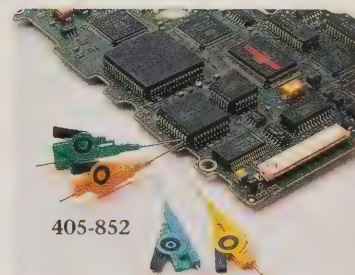


10070-Series Rugged Passive Probes

These general purpose probes are designed for use with the Agilent 54600-series scopes. All probes come complete with instructions, adjustment tool, retractable hook tip and ground lead. An optional SMT kit (Model 10072A) included 10 SMT lead grabbers for accessing 50 mil. fine-pitch devices. For probing .5 mm devices, the 10075A MicroGrabber kit should be used.



405-849



405-852

Probes

Part No.	Model	(MHz) Bandwidth	Attenuation	MΩ/pF	Readout	Length	Oscilloscope Compatibility	Price
405-847	10070C	20	1X	1/70	No	1.5m	54600-Series	\$71.00
405-851	10074C	150	10X	10/15	Yes	1.5m	54645A/D	\$111.00
405-850	10073C	500	10X	1/12	Yes	1.5m	54610/15/16B	\$167.20

Accessories

Part No.	Model	Description	Price
405-849	10072A	SMT Kit for 10070 Probes	\$67.80
405-852	10075A	Micro Kit for 10070 Probes	\$158.00



Coax Adapter Connector Kit

*Any Adapter Can be Created
on the Spot in Just Seconds*

In just seconds you can make 72 coax adapters in any combination of BNC, TNC, SMA, N, UHF, MINI-UHF, Male-Male, Male-Female, or Female-Female, without any soldering or crimping. Simply screw the required connector to one of the interfaces. Kit includes 2 male and 2 female connectors of all six types, plus 6 universal interfaces. All connectors are silver-plated, feature gold-plated contacts and come in a padded, zippered leather case.



Part No.	Description	Price
124-263	Coax Adapter Connector Kit	\$175.10

Pomona Maxi Universal Adapter Kit

Kit contains 2 each: BNC male, BNC female, TNC male, TNC female, SMA male, SMA female, N male, N female, UHF male, UHF female, mini UHF male, mini UHF female, F male, F female, RCA male, RCA female, six intermediate couplers, one double banana plug, one double banana jack and one T sampler (coupler/BNC/coupler).



Part No.	Model	Description	Price
411-535	5748	Maxi Universal Adapter Kit	\$248.47



FLUKE®

100A AC/DC Current Probe for Scopes

■ 600V maximum input

Accurately displays AC/DC current up to 100A on your oscilloscope with a resolution of 0.1A. Clamps over conductors up to 0.46" in diameter and has two switch-selectable ranges: 0 to 10A and 0 to 100A. Usable frequency range is from DC to 100KHz. Comes complete with manual, output cable with safety shrouded BNC connector, and 1-year warranty.

Part No.	Model	Description	Price
400-377	80I-110S	Clamp-on 100A AC/DC Probe	\$420.00



FLUKE®

240A AC Current Probe for Scopes

Accurately displays AC current up to 240A on your oscilloscope with a resolution of 0.1A. Clamps over conductors up to 0.8" (20mm) in diameter and has two switch-selectable ranges: 0.1 to 20A and 0.5 to 200A. Usable frequency range is 40Hz to 10KHz. Comes complete with manual, output cable with safety shrouded BNC connector and a dual banana to BNC adapter to connect the probe to your DMM. 1-year warranty.

Part No.	Model	Description	Price
411-254	i200s	240A AC Current Probe for Scopes	\$149.00



Tektronix

High Voltage Differential Probe

Powered by TekProbe™ interface on TDS scopes or optional 1103 Probe Power Supply (not compatible with the TDS300 series)

- ±1000V max. floating voltage
- 100MHz Bandwidth
- UL3111 & IEC-61010-1 certified
- 1,300V max. differential

This probe allows you to safely make floating measurements with a grounded scope by converting floating signals to ground referenced signals. When used with a TDS (400, 500, 600 & 700) series scope, the probe is powered directly from the scope. It can also be used with other scopes by utilizing the Model 1103 Tekprobe Power Supply (not compatible with the TDS300 series). Unit comes with manual, carrying case and probe accessories.

Part No.	Model	Description	Price
402-034	P5205	High Voltage Differential Probe	\$1,035.00
400-227	1103	Probe Power Supply	\$1,600.00

Model P5205 Specifications	
Bandwidth	100MHz
Maximum Floating Voltage	±1000V
Maximum Differential Voltage	1300V (DC + peak AC)
CMRR	80dB @ 60Hz, 50dB @ 100KHz
Attenuation	50X, 500X
Input R/C	4MΩ/7pF (each input to ground)

FLUKE

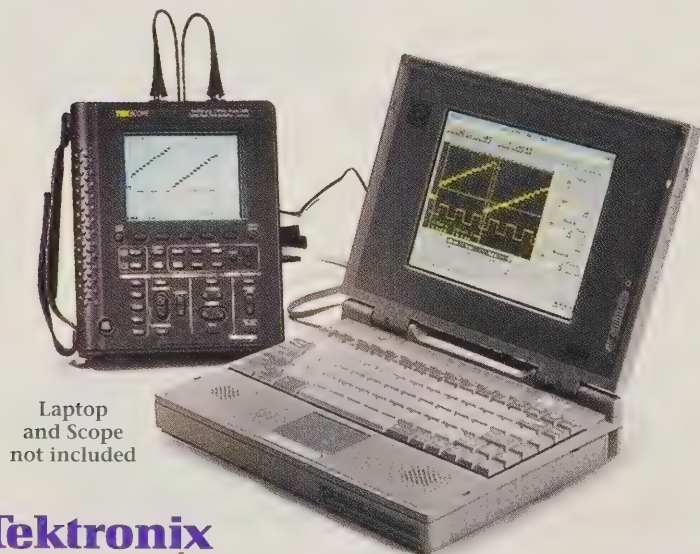
20MHz Differential Voltage Probe

- Meets IEC-61010-1 600V, CAT III or 1000V, CAT II

Ideal for measurements on motor control circuits, uninterruptable power supplies (UPSs), process controllers and other systems with multiple grounds or systems that require floating measurements. Each channel can be connected to a different ground potential when using a grounded (bench-type) or hand-held, battery operated oscilloscope. Double insulation and insulated BNC allow for use in 600V CAT III or 1000V CAT II overvoltage conditions. Unit operates on 9V battery (included) or optional AC adapter (402-903). Comes complete with instructions, two pin-grabber test clips and two large jaw alligator clips.

Part No.	Model	Description	Price
404-623	DP120	20MHz Differential Probe	\$450.00
402-903	PM8907/803	AC Adapter	\$70.00

Model DP120 Specifications	
Bandwidth:	20MHz
Maximum Floating Voltage:	600V CAT III; 1000V CAT II
Maximum Differential Voltage:	1200V (DC + AC peak)
CMRR:	200X at 1MHz>50dB 20X at 1MHz>40dB
Input R/C:	5MΩ/6pF



Laptop and Scope not included

Tektronix

WaveStar Scope Software

Inputs, publishes, and archives simple waveforms from all Tek storage scopes with data output. Imports data into hundreds of DOS or Windows programs for graphing, analysis or publishing. Prints direct to printer or plotter. You may also output waveform setups from WaveStar to the scope. 3-1/2 and 5-1/4" diskettes. Intel-based PC running DOS 3.2 and up.

Part No.	Model	Description	Price
409-233	WSTR0	WaveStar Software	\$330.00

Tektronix

25MHz Active Differential Probe

For Safe Floating Measurements up to 5600V

- DC gain accuracy ±3%

This probe enables you to make measurements of floating circuits (up to 1,300V differential) with your oscilloscope grounded. It converts floating signals to low voltage ground referenced signals and is ideally suited for measuring fast dV/dt in switching power devices, such as IGBTs, MOSFETs, thyristors, GTOs, and bipolar transistors. Simple to operate and protects you from shorting any circuits or test equipment to ground. Unit operates on 9VDC adapter (included) and comes complete with manual and 18 inch input leads with interchangeable alligator clips and plunger clips for easy connection to IC legs. 1-year warranty.

Part No.	Model	Description	Price
131-213	P5200	25MHz Active Differential Probe	\$650.00

Model P5200 Specifications	
Bandwidth 25MHz	Maximum Floating Voltage ±1,000V
Maximum Differential Voltage 1,300V	CMRR (1MHz) -40dB
Input R/C 4MΩ/10pF	Certification UL 1244/IEC-61010-1



200MHz O'scope Probes

- X10, switchable X1/X10, or X100
- 1.4 meter cable length

High quality probes for all major brands of oscilloscopes. Four accessory pieces included. Economical fixed **X10** unit. **X1/X10** Switchable Probe is our most popular. Select **X100** attenuation for applications from 400V to 2kV.

Part No.	Model	Description	Price
123-899	P200B	200 MHz Probe	\$50.45
124-149	X1/X10	Switchable 200MHz Probe	\$50.00
701-553	X100	250MHz Probe	\$72.10



BNC Patch Cables

- Long life design
- A must for any bench

High quality cables and connectors make these cables a perfect match for all of you testing and engineering needs. Each has heavy molded strain relief which won't separate from cable or connector. RG58c/u 50Ω cables.

Part No.	Description	Length	Price
181-566	Coax Cable w/Strain Reliefs	36"	\$12.63
181-567	Coax Cable w/Strain Reliefs	48"	\$15.78



Oscilloscope Probe

- Low cost, high quality
- Perfect replacement probe

A good quality general purpose passive probe for replacement of lost or damaged probes. Each probe is X1/X10 switchable and rated to 15/100MHz bandwidth. Comes with complete accessory kit. Four foot length.

Part No.	Description	Price
181-626	Oscilloscope Probe	\$50.73



31-Piece Coax Adapter Kit

- Make any adapter you need
- Tested to 1GHz
- High content silver and gold plating

Part No.	Description	Price
701-300	Coax Adapter Kit, 31 pc.	\$170.00
701-048	RG-58 Cable, 4', accepts adapters both ends	\$19.95
701-320	Adapter Connector, connects any two adapters	\$6.25

Male Part No.	Female Part No.	Description	Price Each
701-322	701-324	BNC Adapter	\$8.10
701-326	701-328	N Adapter	\$8.90
701-330	701-301	UHF Adapter	\$8.10
701-331	701-335	TNC Adapter	\$8.10
701-337	701-339	SMA Adapter	\$11.00
701-340	701-342	Mini-UHF Adapter	\$8.10
701-344	701-346	F Adapter	\$7.05
701-348	701-350	RCA Adapter	\$11.00



7/16 DIN Adapter Kit

- Perfect for PCs and cellular techs

Enables you to connect equipment that has 7/16 DIN connections to other equipment with Type N connections. High resistance to inter-modulation interference. Kit contains 7/16 DIN male to 7/16 DIN female right angle, 7/16 DIN male to N male, 7/16 DIN male to N female, 7/16 DIN female to N male, 7/16 DIN female to N female, 7/16 DIN female to 7/16 DIN female.

Part No.	Description	Price
136-716	6254 7/16 DIN Adapter Kit	\$445.18





Tektronix

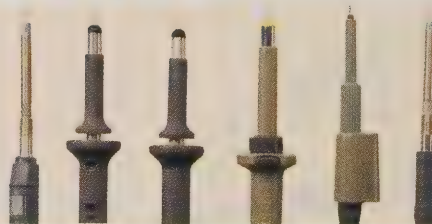
Modular, Passive Oscilloscope Probes

Modularity - Provides Lower Cost of Ownership

Full scope bandwidth at probe tip

Using a special resistive-wire cable, Tektronix probes minimize circuit loading while assuring that the full rated bandwidth of your scope is available at the probe tip. Modular design allows you to replace the probe head, cable, and connector box modules quickly without soldering. On "B" series probes, only the tip is replaceable. Model P2220 is a switchable 1X:10X probes. All probes are rated at 500VDC maximum input and come complete with instructions, adjustment tool, retractable hook tip, ground leads, and cable markers. Probe replacement modules are available for all Tektronix modular probes.

Part No.	Model	Description	Price
123-911	P6101B	1X Passive Probe	\$125.00
410-728	P3010	10X Passive Probe	\$125.00
123-928	P6139A	10X Passive Probe	\$330.00
417-769	P5050	10X Passive Probe	\$325.00
404-512	P6117	10X Passive Probe	\$160.00
425-068	P2220	10X Passive Probe	\$99.00
425-067	P5120	20X Passive Probe	\$390.00



Scopes to Probes Chart				
Oscilloscope	Passive 1X	Passive 10x	Passive 1X / 10X	Passive 20X
TDS1002, TDS1012	P6101B		P2220	
TDS2002, TDS2012, TDS2014	P6101B		P2220	
TDS2022, TDS2024	P6101B		P2220	
TDS3012B, TDS3014B	P6101B	P3010		
TDS3032B, TDS3034B	P6101B	P6139A		
TDS3052B, TDS3054B	P6101B	P6139A		
TDS5052B	P6101B	P5050		
TDS5054B	P6101B	P5050		
TDS5104B	P6101B	P5050		
THS720A	P6101B	P6117		
THS720P	P6101B	P6117		
THS730A	P6101B	P6117		
TPS2000			P2220	P5120

High Voltage Probes

Measure Elevated Voltages without Damaging your Probe

Now you can measure elevated voltages without damaging your probe, scope or yourself. These high performance probes provide low capacitance, high input impedance and frequency response starting at DC. Model P5100 features 100MHz bandwidth, 1,000 maximum input voltage. Model P5100 features a 250MHz bandwidth, 2,500 maximum input voltage, and readout. Heavy-duty applications require the 75MHz P6015A which can handle pulses up to 40KV (max. DC voltage of 20KV).

Part No.	Model	Attenuation	(MHz) Bandwidth	Loading MΩ/pF	Compensation of Scope (pF)	Readout	Ground Reference	Length	DC + Peak AC Maximum Voltage	Price
131-201	P5100	100X	250	10/2.7	7-30	Yes	No	10ft	2500V	\$290.00
123-904	P6015A	1000X	75	100/3.0	7-49	No	No	10ft	20KV	\$1,325.00



Modular Oscilloscope Probes

- 250 MHz bandwidth
- 1X, 10X
- 1.4ns risetime
- 600V maximum input

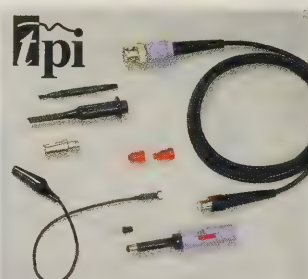


These repairable modular probes are rugged, extremely flexible, and can be used with any oscilloscope. Come complete with spring hook, BNC adaptor, insulating tip, spare measuring tip, IC adaptor, adjusting tool, and 15 cm. ground lead. Cable length is 1.2 meters. Two models to choose from. Model P250B has X10 attenuation. Model SP250B has switchable 1X, 10X attenuation.

Part No.	Model	Description	Price
411-531	P250B	10X Probe	\$51.45
411-899	SP250B	1X, 10X Switchable Probe	\$56.60

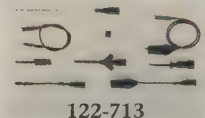
Modular Oscilloscope Probes

- 100 MHz bandwidth
- 3.5ns risetime
- 1X, 10X
- 600V maximum input

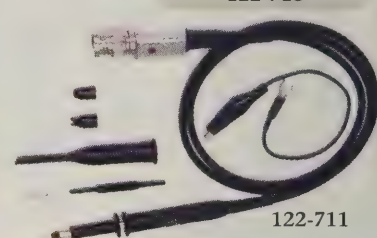


Probe features a wide compensation range (10pF to 60pF) and has a break-resistant center conductor and a sharp, heavy-duty tip. It features X1, X10 attenuation, a reference switch position, thinner body and a replaceable tip. Comes complete with spring hook, BNC adaptor, IC and insulating tip and trimming tool. Cable length is 1.5 meters.

Part No.	Model	Description	Price
124-147	SP100B	1X, 10X Switchable Probe	\$50.45



122-713



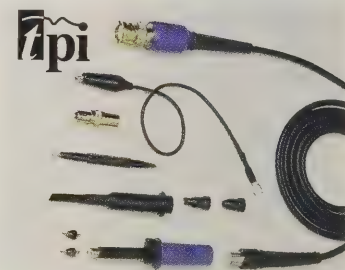
122-711

Modular Scope Probe

- 150MHz bandwidth
- Switchable 1X, Ref, 10X

The gold plated probe tip and interconnect points provide excellent contacts for probing low level analog signals and high speed digital data. Finger-tip, three-position switch allows quick changes between 1:1, 10:1, and reference ground. Probe cable is 5 ft. long and comes complete with IC test tip, sprung hook, tip insulator, trimmer tool, 6" ground lead and storage pouch. Risetime-2.4ns. Input resistance-10MΩ, Loading 15pF. Working voltage-600V and compensation range to 60pF. Optional accessory kit, 122-713 includes: alligator tip, wire wrap tip, micro hook, pincer hook, pico hook black, wire wrap ground, 12" ground lead extender tip, BNC adapter, channel markers and probe holder.

Part No.	Model	Description	Price
122-711	4901-2	Gold Scope Probe	\$45.35
122-713	4975EK	Accessory Kit	\$32.15

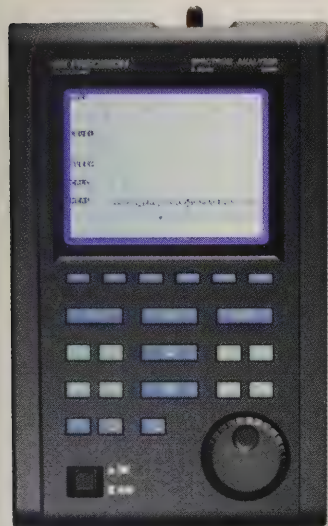


Modular Scope Probe

- 200MHz bandwidth
- 1.5ns risetime
- 10X
- 600V maximum input

10X probe provides superior performance with a risetime of less than 1.5ns and a sharp pulse response. A rubber seal around the adjustment screw and a silicone insulation on the circuitry keep out moisture. Comes with sprung hook, trimmer tool, 6" ground line, BNC adapter, IC tip and isolating tip. Cable is 1.2 meters long.

Part No.	Model	Description	Price
123-899	P200B	200MHz Monolithic Probe	\$50.45



BK PRECISION

Handheld 3.3GHz Spectrum Analyzer

- Channel power measurement
- Adjacent channel power measurement
- Occupied bandwidth measurement
- Electric field strength measurement (with optional dipole antennas)
- Min/Max hold
- Average and over write mode
- Marker measurement
- Switchable 50 or 75 ohm input impedance
- Peak search
- Auto tuning
- Auto range
- Save/Load
- Hard copy of display (with optional PT 2650)

The 2650 is a high-performance spectrum analyzer providing excellent performance and functions for many different applications. It is a compact, lightweight and inexpensive unit that is ideal for testing W-CDMA, CDMA, GSM, PDC, PHS, Wireless LAN and Bluetooth systems. Included accessories are: AC adapter, leather textured carrying case, replacement Ni-MH battery pack, accessory pouch, fuse and instruction manual.

Part No.	Model	Description	Price
420-977	2650	3.3GHz Spectrum Analyzer	\$4,495.00
420-978	AK2650	PC Interface Software	\$199.00
420-979	PT2650	Printer for Model 2650	\$459.00



BK PRECISION

1 GHz Spectrum Analyzer

- 150KHz/hour stability
- Dynamic range 80dB (113dB with attenuation)
- +20dBm maximum input
- 50 Ohm input impedance (optional 75 Ohm adapter)

The bandwidth is 150KHz to 1,050MHz with a resolution of 20KHz and 400KHz. It features an adjustable frequency scanwidth from 100KHz to 100MHz per division, a 4-digit LED display, and AM/FM audio demodulation that allows you to listen to and identify RF signals. It also provides a tracking generator with a range of 150KHz to 1,050MHz and adjustable output level of -50dBm to +1dBm. Operates on 90-260VAC, 50/60Hz, measures 11.2" x 4.9" x 15" and weigh 13.2 lbs. Comes complete with instruction manual and 1-year warranty. An optional near-field sniffer probe (Model PR-261) can be used to locate cable and PC board emission "hot spots", evaluate EMC problems and locate RF leakage/radiation problems.

Part No.	Model	Description	Price
402-636	2630	1,050MHz Analyzer w/Signal Generator	\$2,195.00
403-397	PR-261	Near-Field Sniffer Probe	\$1,019.00
403-398	ZTF-1	75 to 50 Ohm Adapter	\$59.00

Spectrum Analyzer Specifications

Model	2630
Frequency	
Frequency range	0.15MHz to 1050MHz
Center frequency accuracy	±100KHz
Frequency resolution	100KHz
Frequency scanwidth	100KHz/div to 100MHz/div
Scanwidth accuracy	±10%
Amplitude	
Amplitude range	-100dBm to +13dBm
Screen display range	80dB (10dB/div)
Reference level	±2dB
IF gain	10dB adjustment range
Input	
Input impedance	50 ohms
Input connector	BNC
Input attenuator	0 to 40dB (4 x 10dB steps)
Maximum input level	+10dBm, ±25VDC
Tracking Generator	
Output range	-50dBm to +1dBm
Output attenuator	0 to 40dB
Frequency range	0.15 to 1050MHz
RFI	<20dBc

RF-3201 2GHz Field Strength Analyzer

Portable, Powerful and Precise

- Phase lock loop for precise tuning
- Menu driven ease of use
- RS-232 interface
- Up to 160 channels scanned and displayed

A powerful tool for telecommunications, cable TV, satellite and radio industries. Receives and measures signals of wide and narrow band FM, AM, and single side-band. Frequency range is 100kHz to 2060MHz. Measures frequency, displays spectrum of signal, measures level of signal in dBm and dBu. Displays single channel, multi-channel and two channel difference. Scans channels and will output audio through built-in speaker. 50Ω input, BNC connector or detachable antenna. Its backlit LCD screen offers graphical output and access to the set-up and measuring menus. Comes complete with 9" detachable whip antenna, RS-232 cable, carrying case, and six AA batteries. 9 x 4 x 1-3/4", 1.4 lbs.

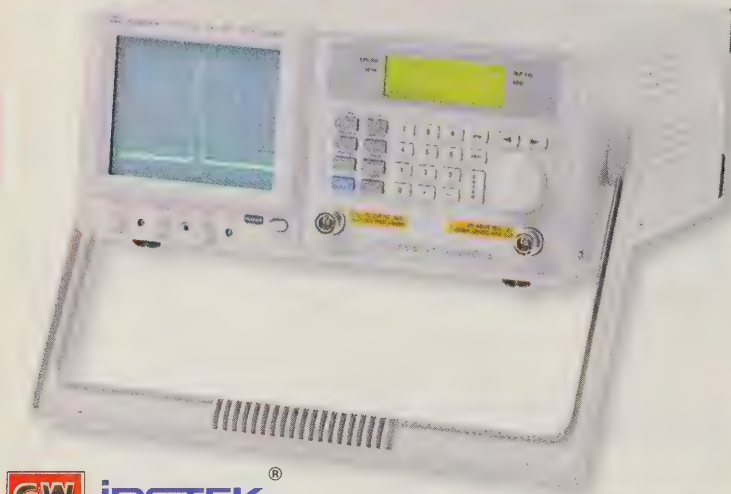
Part No.	Model	Description	Price
409-534	RF-3201	2GHz RF Field Strength Analyzer	\$1,935.00
338-007	61-902	RS-232C Cable/RF3201	\$74.95

Protek



Specifications

Frequency Range	100kHz to 2060MHz
Frequency Step	5kHz to 6MHz in multiples of 5kHz and 6.25kHz
Frequency Accuracy	± 25 ppm
Max Input Voltage	5Vrms
Level Measurement Range	-10dBm to 40dBm ± 0.5dBμ
Frequency Counter Bandwidth	9MHz to 2060MHz resolution to 1kHz
Input Sensitivity	9MHz to 2060MHz = 120mV 50MHz to 1500MHz = 50mV 2MHz to 2800MHz = 500mV



1 GHz Spectrum Analyzer

- Fully Digital Phase Locked Loop
- High Frequency Stability: ± 10 ppm
- High Resolution of Span for More Detailed Signal Measure
- High Input Protection Level: +30dBm, ± 25 VDC
- Save/Recall up to 9 Measurements in Memory
- RS-232 Interface and Display Software



Available either with or without Tracking (Signal) Generator. Adjustable scan-width from 2kHz to 100MHz per division. Resolution Bandwidth accuracy 15%. Good noise performance: -95dBm @30kHz, 100 dBm typical; over -150 dBm/Hz typical @220kHz and 4MHz RBW. Spurious noise < -60dB. Two markers for absolute and relative measurement. Functions: Max Hold, Average (2-32 traces), Freeze, Peak Search, and Marker to Center. Measures 310mm(W) x 150mm(H) x 455mm(D), weighs approx. 8.5kg. Ships complete with operations manual.

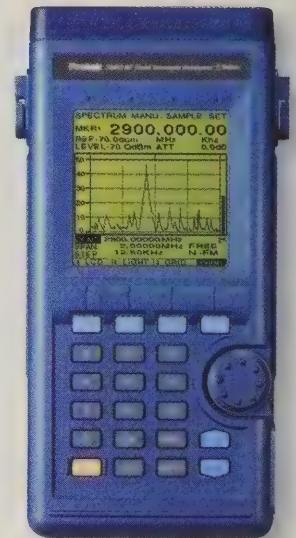
Part No.	Model	Description	Price
420-906	GSP-810TG	Spectrum Analyzer with Signal Generator	\$3,275.00
420-907	GSP-810	Spectrum Analyzer	\$2,375.00

Protek

2.9 GHz RF Field Strength Analyzer

Increased Frequency Range and Scan Rate

- Measurements to 2.9 GHz
- High sensitivity (-117 dBm max)
- 125 Channel/sec scan rate
- Hand-held and battery powered
- Built-in frequency counter
- RS-232 interface
- Setups and data may be stored in memory
- Detects wide band, narrow band, FM, AM and single sideband signals
- 160 channels may be scanned and displayed
- 50 Ω input impedance
- Audio output with built-in speaker
- Ideal for IEEE 802.11b applications, wireless telephones, RF paging systems, indoor repeaters and surveillance applications
- All functions are menu selected



Measures 9 x 4 x 1.8", weighs 1.4 lbs and ships complete with 9" detachable whip antenna, AC/DC adapter, vehicle power adapter, type N to BNC adapter, holster, carry case, manual, 6 AA batteries, software and RS-232 cable.

Part No.	Model	Description	Price
425-031	3290	Field Strength Analyzer	\$2,700.00



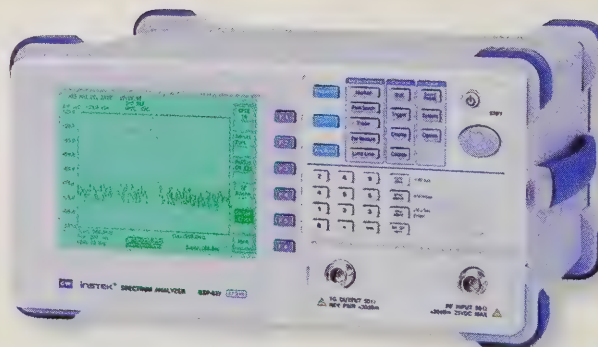
2.7 GHz Spectrum Analyzer

Easy-To-Use, Portable with Exceptional Price/Performance

- 9kHz -2.7GHz
- Split window: simultaneous measurements, separate frequency spans
- AC/DC/Battery operation
- Portable - compact and lightweight

Exceptional Price Performance

Utilizing advanced synthesizer-based design, GSP-827 delivers accurate and reliable measurements. The superior performance includes -130dBm/Hz average noise floor, -100dBm to +20dBm input range, one-button measurement of ACPR, OCBW and CH power for wireless systems, and split window display that enables simultaneous measurements in two separate frequency spans.



High Portability

With AC/DC/Battery operation, 4.5 kg weight, compact size, and frequency range, the GSP-827 is very useful for the field service of RF systems. The 100 sets of memory, which allow saving 100 trace/state, makes repetitive measurements not only feasible, but convenient.

Ease of Use

The straightforward operation mode requires little learning time for a new user to power-up and play. The parameters of Frequency, Span and Amplitude can be easily set for optimum measurement performance.



Applications:

- Pre-compliance testing
- Maintenance of industrial factory wireless automation
- Maintenance of broadcast radio/television and CATV
- RF component manufacture
- Installer/maintainer of WLAN
- Field service of GSM cell site

Part No.	Model	Description	Price
420-982	GSP-827	2.7 GHz Spectrum Analyzer	\$4,700.00
420-983	Opt. 01	Tracking Generator	\$1,500.00
420-984	Opt. 02	AC/DC/Battery Operation	\$700.00
420-985	Opt. 03	± 1 ppm stability	\$315.00
420-986	Opt. 06	GPIO interface	\$250.00
420-987	Opt. 07	Soft carrying case	\$210.00
420-988	Opt. 08	General kit set	\$295.00
420-989	Opt. 09	CATV kit set	\$360.00
420-990	Opt. 10	RLB kit set	\$240.00
420-991	Opt. 11	DC power line	\$40.00

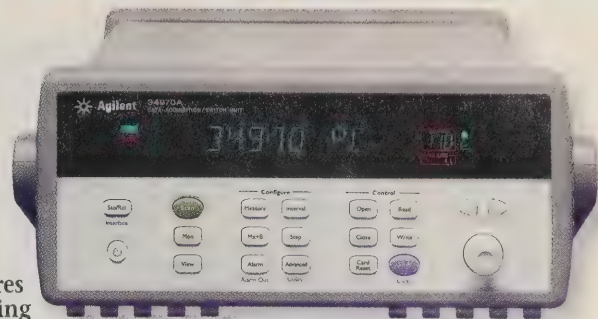


Data Acquisition & Switching System

Ideal for Data Logging, Data Acquisition, and General Purpose Switching and Control Applications

- Choose from 4 switch and control plug-in modules
- 6-1/2 digit (22 bit) internal DMM measures 11 functions without external conditioning
- 50,000 non-volatile memory holds data when power is removed
- Measure up to 96 matrix crosspoints or 120 single-ended channels
- Scanning up to 250 channels/sec
- Built-in HP-IB and RS-232 interfaces
- HP Benchlink data logger software included

This high performance data acquisition and switching unit features a built-in, 6-1/2 digit (22 bit) digital multimeter with a basic accuracy of 0.004% that measures 11 different functions directly, eliminating the need for external signal conditioning. Temperature routines are built-in to display raw thermocouple, RTD, or thermistor inputs in degrees C, F, or Kelvin. Mx+B scaling converts linear transducer outputs directly into engineering units. Three module slots are built into the rear of the unit to accept the switch and control modules described at right. The included Benchlink datalogger software allows you to set up your test, acquire and archive measurement data, and perform real-time display and analysis of the incoming measurements. Comes complete with a Quick Start package that includes Benchlink data logger software, RS-232 cable, thermocouple and screwdriver also operating and service manuals, test report, and 3-year warranty. Operates at 110-240VAC (45-66Hz), measure 14.7" x 10" x 4" and weighs 14 lbs.



Part No.	Model	Description	Price
408-432	34970A	Data Acquisition Switching Unit with DMM	\$1,478.00

Switch and Control Plug-in Modules

Three module slots are built into the rear of the unit to accept the central modules to meet your unique requirements. Buy only what you need, and add more modules later as your application grows. On-module screw terminals accept wire sizes from 16 gauge to 22 gauge. 20 gauge wire is recommended for high channel count applications.

34901A 20 Channel Multiplexer (2/4-wire)

Combines dense, multi-function switching with 60 channel/second scan rates to address a broad spectrum of data acquisition applications. Two- and four-wire channels can be mixed on the same module. Two additional fused inputs (22 channels total) route up to 1A of current to the internal DMM, allowing AC and DC current measurements without the need for external shunt resistors.

Part No.	Model	Description	Price
408-434	34901A	20 Channel Armature Multiplexer Module	\$456.00

34903A 20 Channel Actuator/GP Switch

General-purpose switch module has 20 independent single-pole, double-throw (SPDT) relays. It can be used to cycle power to products under test, control indicator and status lights, and to actuate external power relays and solenoids. It can be combined with matrix and multiplexer modules to build custom switch systems. Its 300V, 1A contacts can handle up to 50W, enough for many power line switching applications.

Part No.	Model	Description	Price
408-436	34903A	20 Channel Actuator/GP Switch Module	\$374.00

34908A 40 Channel Single-Ended Multiplexer

Use for the greatest density in common-low applications, such as battery test, component characterization, and benchtop testing. Each module switches 40 one-wire inputs. All two-wire internal measurements except current are supported. The module low connection is isolated from earth and can float up to 300V.

Part No.	Model	Description	Price
408-441	34908A	40 Channel Single-Ended Multiplexer	\$456.00

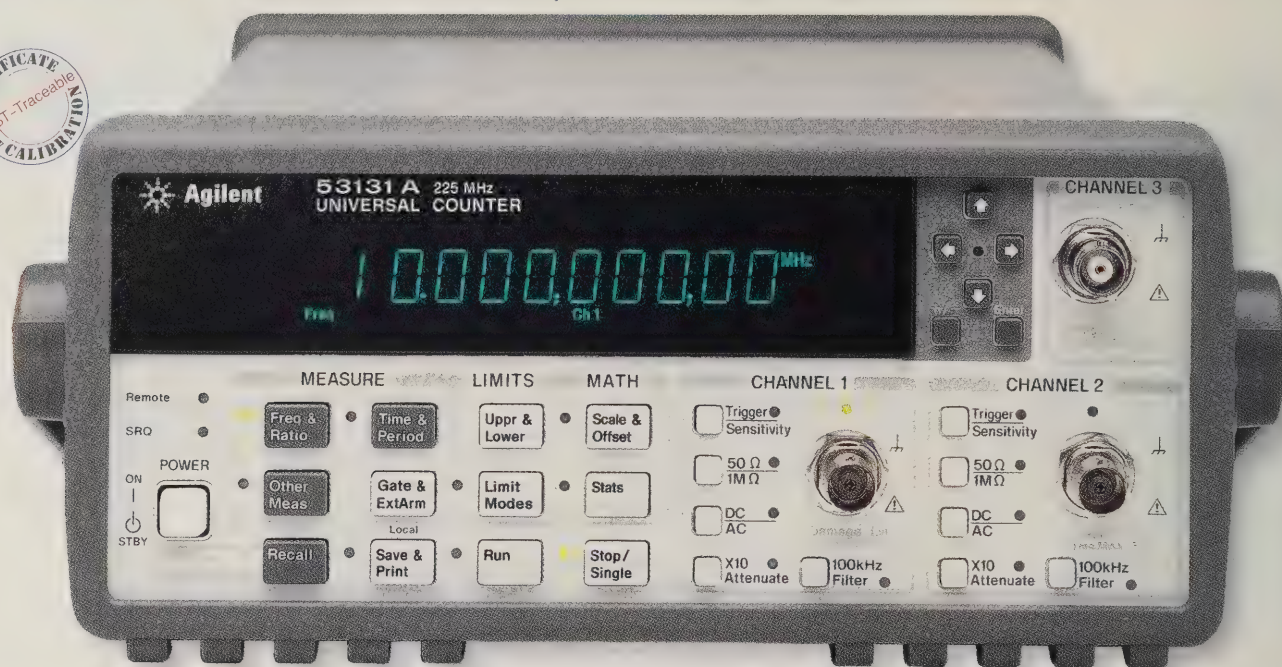
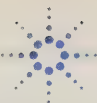
34907A Multifunction Module

Combines two 8-bit ports of digital input and output, a 100KHz gated totalizer, and two $\pm 12V$ analog outputs — all on a single earth-referenced module. Use the digital outputs with an external power supply to control microwave switches and attenuators, solenoids, power relays, indicators and more. Use the digital inputs to sense limit switch and bus status. The totalizer can count events like photo interrupters, limit switches, and Hall-effect sensors. It keeps an updated total which can be read via the front panel or programmatically at any time. Use the two electronically calibrated analog outputs to source bias voltages to your device under test, to control your analog programmable power supplies, or use the outputs as setpoints for your control systems. The outputs are programmed directly in volts, either from the front panel or from the bus.

Part No.	Model	Description	Price
408-440	34907A	Multifunction Module	\$348.70

Module Specifications

Module Description	Type	Connects to internal DMM	Speed (ch/sec)	Maximum Input			Offset Voltage	Band Width	Comments
				Voltage	Current	Power			
34901A 20-ch Multiplexer	2-wire armature (4-wire selectable)	Yes	60	300V	1A	50W	<3 μ V	10MHz	2 current channels (22 ch. total) Built-in cold junction reference
34903A 20-ch Actuator/GP Switch	SPDT/form C	No	120	300V	1A	50W	<3 μ V	10MHz	
34907A Multifunction Module	2: 8-bit digital I/O ports 26-bit Event Counter Two analog outputs	No No No	n/a n/a n/a	42V 42V $\pm 12V$	400mA n/a 10mA	n/a n/a n/a	n/a n/a n/a	n/a 100kHz dc	Open drain Gated; selectable input threshold 16-bit, earth referenced
34908A 40-ch single-ended Mux	1-wire armature common low	Yes	60	300V	1A	50W	<3 μ V	10MHz	No 4-wire measurements Built-in cold junction reference



53100-Series 225MHz Counters

- Optional 3GHz bandwidth
- Built-in HP-IB interface
- RS-232 talk-only interface
- NIST-traceable certificate of calibration

These instruments use real-time digital signal processing technology to analyze data while simultaneously taking new readings, improving data throughput. Built-in statistics and math functions allow you to scale measurements and simultaneously measure and track average, min/max and standard deviation. Automated limit testing lets you set upper and lower limits for any measurement. An analog display mode lets you see at a glance whether a measurement is within pass/fail limits. For quick access to frequently used tests, a single keystroke recalls up to 20 front panel setups. The built-in HP-IB interface provides full SCPI-compatible programmability and a data transfer rate of more than 200 fully formatted measurements per second. The RS-232 talk-only port provides printer support or data transfer to a computer through a terminal emulation program. Three models to choose from. Model 53131A is a 10-digit, 225MHz 2-channel universal counter that measures frequency, period, ratio, time interval, pulse, width, phase angle, duty cycle, totalize, peak voltage and rise time. Model 53132A is a 12-digit, 225MHz universal counter with all of the same features and functions as Model 53131A. Option 010 adds a high-stability timebase with aging of less than 2 x 10-

8 per year. Option 010/030 combines the high stability option with a 3GHz RF-input channel. Model 53181A is a 10-digit, single-channel RF counter with frequency, period and peak-voltage measurement. For higher frequency measurement, option 015 adds a second channel that provides a 1.5GHz bandwidth. All models operate on 115VAC, measure 4.1"H x 10"W x 14.8"D and weigh 6.5 lbs. Come complete with operating, programming and service manuals, NIST-traceable certificate of calibration and 3-year warranty.



For an expanded selection of test & measurement products visit contacteast.com or jensentools.com

Part No.	Model	Description	Price
405-865	53131A/ABA	225MHz, 10-Digit Universal Counter	\$2,053.00
405-867	53132A/ABA	225MHz, 12-Digit Universal Counter	\$3,264.60
405-868	53132A/010/ABA	53132A w/Hi-Stability Timebase	\$4,321.05
405-869	53132A/010/030/ABA	53132A w/Hi-Stability Timebase and 3GHz Channel	\$5,378.45
405-870	53181A/ABA	225MHz 10-Digit RF Counter	\$2,053.30
405-871	53181A/015/ABA	53181A with 1.5GHz Channel	\$2,426.65

53100-Series Specifications

	53131A	53132A	53181A
Measurements	Frequency, ratio, time interval, period, rise/fall time, pulse width, duty cycle, phase, totalize, peak voltage		Frequency, period, peak voltage
Analysis	Automatic limit testing, math (scale and offset), statistics (min, max, mean, standard deviation). Statistics available on all measurements or only measurements that fall within limits.		
Frequency Range	CH 1 & 2-225MHz	CH 1 & 2-225MHz	CH 1-225MHz
Frequency Resolution	10 digits/s	12 digits/s	10 digits/s
Impedance, Coupling	1M Ω or 50 Ω , ac or dc	1M Ω or 50 Ω , ac or dc	1M Ω or 50 Ω , ac or dc
Low Pass Filter	100KHz, switchable	100KHz, switchable	100KHz, switchable
Attenuation	1X OR 10X	1X OR 10X	1X OR 10X
External Timebase	1, 5, 10MHz	10MHz	1, 5, 10MHz
Reference Input	CH 1 & 2	CH 1 & 2	CH 1
Trigger	Trigger on rising/falling edge; set level by % of signal level or absolute voltage; set sensitivity to Low, Medium or High		
Gating and Arming	Auto, manual (set gate time or number of digits of resolution); external; delay		

Model 4011A Specifications

Frequency Range:	0.5Hz to 5MHz (7 ranges). Four digit frequency counter display
Maximum Amplitude:	20V p-p (open circuit). 10V p-p (into 50 Ω load)
Amplitude Control:	Continuously variable, 20dB range typical.
Attenuator:	-20dB \pm 1dB
Output Impedance:	50 Ω \pm 6%.
DC Offset:	Continuously variable, from -10V to +10V (open circuit) - 5 to +5 into 50 Ω
Duty Cycle Control:	Continuously variable 15:85:15
Sine Wave Function:	Distortion: 0.5Hz to 100kHz; \leq 1% >100kHz: Harmonics>30dB below fundamental
Square Wave Function:	Symmetry: 0.5Hz to 5MHz; \leq 2% Risettime: \leq 50ns
Triangle Wave Linearity:	0.5Hz to 100kHz; 98%, 100kHz to 5MHz; 95%.
TTL Output:	Level: .8V to 2.4V. RiseTime: \approx 30ns.
CMOS Output:	Level: Continuously adjustable from 4V p-p (\pm 1Vp-p) to 14.5V p-p (\pm 0.5 p-p) Rise Time: \leq 120ns
VCG (Voltage Controlled Generator)	
Input:	Input Voltage: Approximately +10V (\pm 1V) causes 100:1 frequency change.
Impedance:	Approximately 10K Ω

5MHz Function Generator with Digital Display

- 0.5Hz to 5.0MHz in 7 ranges
- TTL and CMOS pulse outputs

Features a 4-digit frequency counter display. Operates at 120/220/240VAC 50/60Hz, measures 11.4" x 10.3" x 3.3" and weighs 4 lbs. Comes complete with power card, one cable BNC to insulated clips, instruction manual & 1-year warranty.

Part No.	Model	Description	Price
401-211	4011A	5MHz Function Generator	\$315.00



Model 4017A Specifications

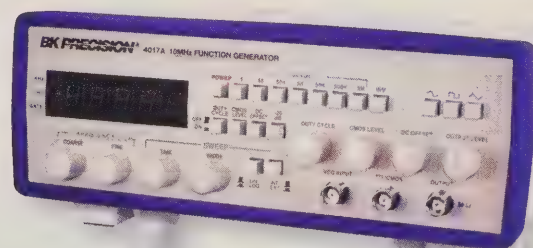
Waveform Outputs:	Sine, Square, Triangle, Pulse, Ramp, TLL & CMOS
Frequency Range:	0.1Hz to 10MHz in 8 ranges
Output Amplitude:	20V p-p open circuit, 10V p-p into 50 Ω load
Amplitude Control:	Variable, 20dB range typical
Attenuator:	-20dB + 1dB
DC Offset:	Variable \pm 10V open circuit, +5V into 50 Ω
Duty Cycle Control:	Continuously variable 15:85:15
Impedance:	50 Ω \pm 10%
Sweep Rate:	.5 sec. to 30 sec., continuously variable
Sweep Width:	100:1, continuously variable
VCG (Voltage Controlled Generator)	
Input:	Input voltage 0-10V causes a 100:1 frequency change

10MHz Sweep/Function Generator with Digital Display

- 0.1Hz to 10MHz
- Linear and log sweep
- 5 digit LED display

Features a 5-digit frequency counter display with an accuracy of \pm 10PPM. Operates at 120/230VAC, 50/60Hz, measures 11.8" x 10.3" x 3.3" and weighs 4 lbs. Comes complete with manual, output cable (BNC to alligator clips) and 2-year warranty.

Part No.	Model	Description	Price
401-216	4017A	10MHz Sweep/Function Generator	\$399.00



Model 4040A Specifications

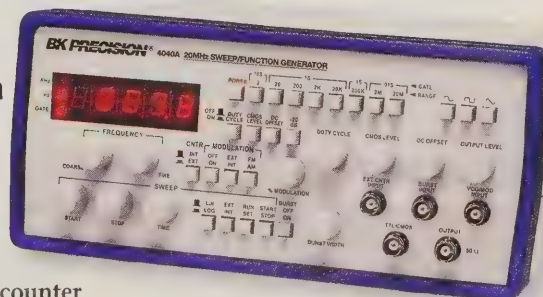
Frequency Range:	.2Hz to 20MHz, 8 Ranges.
DC Offset:	\pm 10V
Impedance:	50 Ω \pm 10%
Output Amplitude:	20V p-p Maximum
Sweep Rate:	0.5 sec to 30 sec period
Sweep Width:	100:1
Counter Accuracy:	\pm 10ppm \pm 1 count
Power:	120/230VAC, 50/60Hz

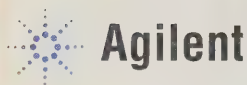
20MHz Sweep/Function Generator with Built-in Frequency Counter

- 100:1 linear or log sweep
- AM and FM modulation
- Variable attenuator, 0 to 20dB
- Operates as external frequency counter

Generates sine, square, triangle, ramp, pulse, and TTL outputs with 0 to 20dB attenuation and continuously variable LIN/LOG sweep. 5-digit LED frequency counter has an internal range of 0.2Hz to 20MHz and an external range of 5Hz to 30MHz. Measures 11.4" x 10.3" x 3.3" and weighs 4.5 lbs. Comes complete with instruction manual, BNC-to-alligator clip cable, and 1-year warranty.

Part No.	Model	Description	Price
401-217	4040A	20MHz Sweep/Function Generator	\$599.00





Agilent 33220A 20 MHz Function/Arbitrary Waveform Generator

Functionality at an Affordable Price

- 20 MHz sine and square waveforms
- Pulse, ramp, triangle, noise, cardiac and dc waveforms
- 14-bit, 50 MSa/s, 64K-point arbitrary waveforms
- AM, FM, PM, FSK and Pulse Width Modulation (PWM)
- Linear & logarithmic sweeps and burst operation
- Connect via USB, GPIB and LAN (all included)



The Agilent 33220A 20 MHz function/arbitrary waveform generator uses direct digital synthesis (DDS) techniques to create stable, accurate and clean output signals with low distortion, including 14 bit, 64K-point arbitrary waveforms. With the optional 10 MHz external time-base reference, it is easy to synchronize multiple units for multi-channel applications.

For programmability, the 33220A comes standard with GPIB, LAN and USB interfaces. Using SCPI commands, you have full control of the 33220A for a test system with other instrumentation. If you just need to quickly create, edit or download a particular waveform, you can use the included IntuiLink Arbitrary Waveform software.

Part No.	Model	Description	Price
420-959	33220A	20 MHz Waveform Generator	\$1,855.00
420-960	33220A/001	Phase lock/TCXO timebase	\$431.00
420-961	33220A/A6J	ANSI Z540 compliant calibration	\$330.25
420-962	33220A/1CM	Rackmount kit (34190A)	\$57.25

Agilent products ordered with options must be ordered by phone to insure proper installation.



21.5MHz Function & Arbitrary Waveform Generator

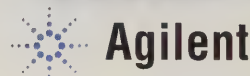
- .01Hz resolution to 21.5MHz
- .001% frequency accuracy
- Software updates via Flash memory
- DTMF source, DTMF detect, & power measurement
- Built-in RS-232 interface



Delivers clean, fully synthesized, DC to 21.5MHz waveforms with .01Hz resolution. Functions include: arbitrary waveform generator, sweep function generator, pulse, VCO, AM, FM, phase modulation, FSK and burst modes. User-friendly features include a large, easy-to-read illuminated LCD display which allows you to see all modulation parameters simultaneously and a full numeric keypad and encoder which provide direct editing of each parameter. The arbitrary waveform generator allows you to design custom waveforms on your PC and download them to the 4070 which generates them in real-time. Operates on 100-240VAC/47-63Hz, measures 5.1" x 9.3" x 10.2" and weighs 9 lbs. Comes complete with manual, software, and 1-year warranty.

Part No.	Model	Description	Price
410-876	4070A	21.5 MHz Arbitrary Waveform Generator	\$1,495.00

Model 4070A Specifications	
Standard	Sine, Square, Triangle, Ramp, Pulse, Noise, DTMF, Dualtone, VCO
Arbitrary Waveform Length	32,768 points
Non-Volatile Memory	1 (32,768 points)
Vert. Resolution	12 bits
Sample Rate	40MS/sec
Frequency Characteristics	
Sine, Square	10mHz-21.5MHz
Triangle, Ramp	1mHz-2MHz
Noise	10MHz bandwidth
Accuracy	10ppm
Output Amplitude	4mV-10Vp-p (into 50 ohms)



15MHz Function Generators with Arbitrary Waveform

- Ten standard waveforms, with sine and square to 15MHz
- Build arbitrary waveforms with 40MS/sec speed
- Storage for four 16K waveforms
- Built-in linear and log sweeps
- Built-in AM, FM, FSK and burst modulation
- Built-in HP-IB and RS-232 interfaces
- NIST-traceable certificate of calibration
- Optional Windows-based Arb software



These high-performance, full-function generators feature sine, triangle, square, ramp and noise waveforms plus, a 12-bit, 16K-deep arbitrary waveform generator, and both internal sweep (linear and log) and modulation (AM, FM, FSK & burst) capabilities. For systems applications, they also include both HP-IB and RS-232 interfaces, and use commands that are SCPI compliant. Two models to choose from. Model 33120A has all of the above features. Model 33120A/001 has all of the above features plus a Phase Lock Loop option that adds a high-stability timebase, the ability to lock to an external timebase, and the ability to phase lock two or more units together. Both models operate at 100-240VAC, measure 4.1" H x 10" W x 14.8" D, and weigh 8.8 lbs. Come complete with manual, NIST-traceable certificate of calibration and 3-year warranty. Also includes Arb software, which allows you to use your PC to create and edit arbitrary waveforms for output on the generator. This can be done by selecting and editing a captured waveform, a waveform from the built-in library, or you can use the drawing tools to create and edit your own custom waveform.

Part No.	Model	Description	Price
405-863	33120A	15MHz Function Generator	\$2,198.00
405-864	33120A/001/ABA	15MHz Function Generator w/Phase Lock Loop	\$2,636.90
405-901	34161A	Accessory Pouch	\$42.15

Model 33120A Specifications	
Standard	Sine, Square, Triangle, Ramp, Noise, Sin(X)/X, Exponential Rise and Fall, Cardiac, DC Volts
Arbitrary Waveform Length	8-16,000 points
Non-Volatile Memory	4 waveforms (8-16K each)
Vert. Resolution	12 bits
Sample Rate	40MS/sec
Frequency Characteristics	
Sine, Square	100μHz-15MHz
Triangle, Ramp	100μHz-100KHz
Noise	10MHz bandwidth
Accuracy	10ppm
Output Amplitude	50mV-10Vp-p (into 50 ohms)

New

BK PRECISION

DC Switching Programmable Power Supplies

200 Watts – PC Controllable

- RS 232 interface
- Data logging capability
- Output disable
- Over voltage protection
- Constant voltage operation
- Constant current operation (current limiting)
- Easy-to-use
- Large easy to read LCD displays

The B&K Programmable Switching DC Power Supplies use new switching technologies to offer more power at a lower cost than traditional linear power supplies. The RS 232 interface allows you to either remotely control the power supply or program a sequence of different voltages and current limits that can be used in an automated test application.

Part No.	Model	Description	Price
425-063	1696	Programmable Power Supply	\$330.00
425-064	1697	Programmable Power Supply	\$310.00
425-065	1698	Programmable Power Supply	\$330.00



Specifications			
B&K Model	1696	1697	1698
Output Voltage:	1-20V dc	1-40V dc	1-60V dc
Output Current:	0-10A	0-5A	0-3.3A
Ripple & Noise:	25mV	25mV	25mV
Load Regulation:	0.5%+200mV	0.5%+100mV	0.5%+100mV
Line Regulation:	50mV	50mV	50mV
Input Voltage:	90-265VAC, 50/60Hz		
Display Meter:	4 digit - display LCD Ammeter, Voltmeter and Power Meter		
Meter Accuracy:	1.5%+2 counts		
LCD Module Back Light:	48 x 6 mm		
Cooling System:	Thermostatic Control Fan		
Protection Devices:	Over Temperature, Tracking OVP		
Approvals	CE		

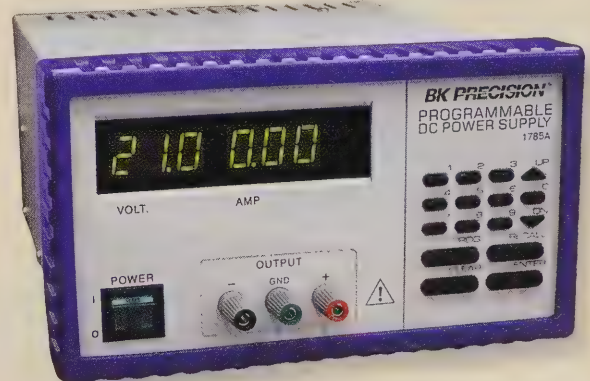
BK PRECISION

Programmable DC Power Supplies

- Nine user-programmable preset outputs
- Ten step user-programmable output routine
- Excellent regulation and low noise
- In-case calibration
- Built-in RS-232 interface

These power supplies feature direct key-in entry for fast, accurate and easy voltage and current selection. User-programmed outputs allow you to preset 9 frequently used voltage and current settings into memory for easy recall with just the press of a button. You can also preprogram a 10 step output routine via the keypad or built-in RS-232 interface for automated testing. Operate on 120VAC/60Hz, measure 8.6" 4.5" x 10.6", and weigh 11 lbs. Come complete with manual, serial interface cable, software and a 2-year warranty.

Part No.	Model	Description	Price
419-208	1785A	Programmable Power Supply, 18V, 5A	\$375.00
419-209	1786A	Programmable Power Supply, 30V, 3A	\$375.00
419-210	1787A	Programmable Power Supply, 60V, 1.5A	\$375.00



Programmable DC Power Supply Specifications			
Model	1785A	1786A	1787A
Output Voltage	0-18V	0-30V	0-60V
Output Current	5A	3A	1.5A
Ripple & Noise	1mV	1mV	1mV
Load & Line Regulation	.02% + 5mV	.02% + 5mV	.02% + 5mV
PC Interface	Built-in RS-232	Built-in RS-232	Built-in RS-232



EXTECH
INSTRUMENTS

200 Watt Programmable Output DC Power Supply

- High resolution (1mV and 1mA) user programmable output
- Selectable constant Voltage or Current modes
- Programmable over Voltage protection
- Programmable over Current protection
- Dual output terminal for source and monitor connections
- Dual high contrast LCD display with backlighting
- Storage/Recall memory for 200 test set-ups
- Auto output of up to 200 steps with programmable Voltage, Current & time

Precision 40V/5A DC power supply contains features that allows for use in R & D, repetitive production tests, prototype board initial power-up with overload protection and for general purpose high power lab requirements.

Part No.	Model	Description	Price
419-806	382280	200W Programmable DC Power Supply	\$699.00

Model 382280 Specifications			
	Range	Resolution	Accuracy
Programmable Voltage Output	0-40V	1mV	0.05% ±9mV
Programmable Current Output	0-5A	1mA	0.02% ±9mA
Fixed Outputs	5V/2A & 3.3V/3A		
Ripple & Noise	Voltage (mVrms): 3mV Current (mA rms): 3mA		
Power Source	110 or 220VAC, 50/60Hz		
Dimensions	12.2 x 9.9 x 5.3"		
Weight	8.4lbs		



For an expanded selection of test equipment visit contacteast.com or jensentools.com

Single-Output Power Supply

- Digital readout
- 0 to 60VDC up to 3A

Fully regulated power supply features isolated output, overload protection, and built-in volt/ammeter with 2, 4-digit LED displays. Operates at 110/120/220/240VAC 50/60Hz, measures 12" x 6-3/4" x 4-3/4" and comes complete with manual and 1-year warranty. Two models to choose from.

Part No.	Model	Description	Price
400-522	1715A	Power Supply, 60V, 2A	\$399.00
400-285	1735A	Power Supply, 30V, 3A	\$399.00

Model 1715A and 1735A Specifications

Model	1715A	1735A
Output Voltage	0-60V	0-30V
Ripple & Noise	≤1mVrms	≤1mVrms
Output Current	0-2A	0-3A
Ripple	≤3mA	≤3mA



Single-Output Power Supply

- 0 to 60V up to 10A

Power supply features two analog meters for monitoring voltage and current simultaneously, and constant-current/constant-voltage modes. Units can be connected in parallel to double the output current or in series to double the output voltage. Operates at 120/220/230/240VAC, 50/60Hz, and measures 15" x 10.5" x 5.7". Comes complete with manual and 1-year warranty. Two models to choose from.

Part No.	Model	Description	Price
400-523	1740A	Power Supply, 60V, 4A	\$525.00
400-281	1746A	Power Supply, 16V, 10A	\$515.00

Model 1740A and 1746A Specifications

Model	1740A	1746A
Output Voltage	0-60V	0-16V
Ripple & Noise	≤1mVrms	≤1mVrms
Output Current	0-4A	0-10A
Ripple	≤3mA	≤3mA
Weight	23 lbs.	20 lbs.

Single-Output Power Supply

- 0 to 60VDC up to 3A

This fully regulated power supply features isolated output, overload protection and two analog monitors. Operates at 110/120/220/240VAC 50/60Hz, measures 12" x 6-3/4" x 4-3/4", and comes complete with manual and 1-year warranty. Three models to choose from.

Part No.	Model	Description	Price
400-284	1710A	Power Supply, 30V, 1A	\$239.00
400-283	1711A	Power Supply, 60V, 2A	\$320.00
400-282	1730A	Power Supply, 30V, 3A	\$325.00

Model 1710A, 1711A and 1730A Specifications

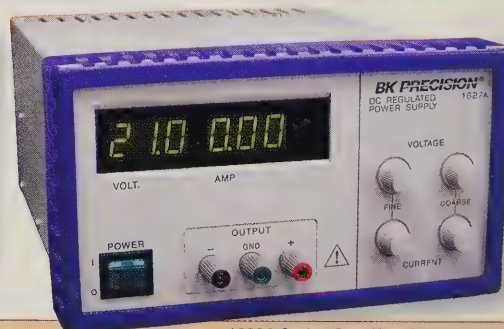
Model	1710A	1711A	1730A
Output Voltage	0-30V	0-60V	0-30V
Ripple & Noise	≤1mVrms	≤1mVrms	≤1mVrms
Output Current	0-1A	0-2A	0-3A
Ripple	≤3mA	≤3mA	≤3mA

Single Output Power Supplies

- Analog or digital readout
- 0 to 60VDC up to 3A

These power supplies feature constant current/constant voltage operation, overload protection and high RFI (radio frequency interference) stability. Operate at 120VAC, measure 9.84" x 5.5" x 8.86" and weigh 11 lbs. Three models to choose from. Available with analog or digital readout.

Part No.	Model	Description	Price
419-200	1620A	Power Supply, Analog, 18V, 5A	\$209.00
419-201	1621A	Power Supply, Digital, 18V, 5A	\$225.00
419-202	1622A	Power Supply, Analog, 60V, 1.5A	\$209.00
419-203	1623A	Power Supply, Digital, 60V, 1.5A	\$225.00
419-204	1626A	Power Supply, Analog, 30V, 3A	\$220.00
419-205	1627A	Power Supply, Digital, 30V, 3A	\$239.00



1620A Series Specifications

Model	1620A	1621A	1622A	1623A	1626A	1627A
Display	Analog	Digital	Analog	Digital	Analog	Digital
Output Voltage	0-18V	0-18V	0-60V	0-60V	0-30V	0-30V
Output Current	0-5A	0-5A	0-1.5A	0-1.5A	0-3A	0-3A
Load & Line Regulation	50mV (Load), 5mV (Line)					
Ripple & Noise	5mV					



Triple-Output Power Supply

- One fixed output at 12VDC, 0-500mA
- One fixed output at 5VDC, 0-500mA
- One variable output at 0 to 30VDC, 0-3A

Power supply has two, 3-digit LCD displays (0.5% accuracy) with a voltage resolution down to 0.1V and current down to 0.01A. It features positive or negative polarity, constant voltage and constant current modes, current limiting, and short circuit protection. Operates at 108-132VAC, 60Hz, measures 5" x 8.5" x 9.2", and weighs 10 lbs. Comes complete with manual and 1-year warranty.



Model 1670A Specifications	
Ripple:	≤5mVrms
Voltage Output:	5VDC fixed
Ripple:	≤5mVrms
Voltage Output:	0-30VDC
Ripple:	≤5mVrms
Output Current:	500mA (12V)
Ripple:	≤10mArms 500mA (5V) 0-3A (0-30V)

Part No.	Model	Description	Price
419-206	1670A	Triple Output Power Supply	\$199.00

64VDC Power Supply

- Perfect for telecom industry
- 10A of clean power

A cost effective high power DC power supply which outputs 64 volts at 10 amps with a highly stable regulation of ±0.01%. Ripple and noise are limited to 4mA rms. This is perfect for the telecommunications industry or whenever high power clean DC is required. Special features include the ability to set constant current with no load and remote sense to compensate for wire voltage drop. Constant voltage or constant current operation. Separate switch operates output. 19 x 5.25 x 15.75", 64 lbs. 115VAC operation. Two year warranty.



Part No.	Model	Description	Price
410-878	1791	DC Power Supply	\$1,350.00

Triple-Output Power Supply

- Two 0-30VDC, 0-2A (Model 1760A)
- Two 0-35VDC, 0-3A (Model 1761)
- One 4-6.5VDC, 5A

This bench power supply provides LED panel readouts for easy viewing of voltage and current readings. Unit provides excellent regulation, low ripple characteristics and switchable series/parallel operation. It has adjustable current limit controls, independent or tracking operation on 30V outputs, constant current and constant voltage indicators, and overload and reverse polarity protection. Operates at 110/120/220/240VAC 50/60Hz, measures 12.4" x 15" x 6.5", weighs 22 lbs., and comes complete with manual and 1-year warranty.



Part No.	Model	Description	Price
400-286	1760A	Triple Output Power Supply	\$650.00
419-271	1761	Triple Output Power Supply	\$689.00

Model 1760A and 1761 Specifications		
Model	1760A	1761
Display	3-Digits	4-Digits
Output Voltage	0-30V (two)	0-35V (two)
Ripple:	≤1mVrms	
Output Voltage	4V-6.5V (one)	4V-6.5V (one)
Ripple	≤2mVrms	
Output Current	0-2A (0-30V) 5A (4-6.5V)	0-3A (0-35V) 5A (4-6.5V)
Ripple	≤3mArms	

Single-Output Power Supply

- 0 to 35V
- 0 to 6A

Power supply features low ripple, overload protection and two built-in LED displays to simultaneously monitor voltage and current output. Operates at 120/220/230/240VAC 50/60Hz, measures 15" x 10.5" x 5.7" and weighs 24 lbs. Comes complete with manual and 1-year warranty.



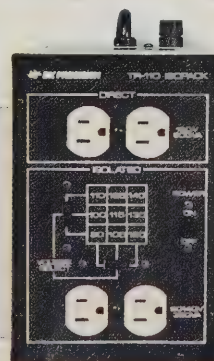
Model 1743A Specifications	
Output Voltage	0 to 35V
Ripple	≤1mV rms
Output Current	0 to 6A
Ripple	≤3mA

Part No.	Model	Description	Price
400-524	1743A	Single Output Power Supply	\$525.00

Dual-Output Isolation Transformer

- Direct and Isolated outputs

Features a 3-conductor, isolated duplex outlet for the safe testing of transformerless equipment. Two 3-position slide switches provide 9 combinations of voltage selection from 90-140V (120V input) with up to 350VA continuous or 500VA intermittent. Also a direct duplex outlet provides line voltage for auxiliary equipment up to 500VA continuous. Operates on 105-130VAC, features a power switch with pilot light, measures 5.5" x 5.1" x 8", weighs 11 lbs. 1-yr warranty.



Part No.	Model	Description	Price
124-268	TR-110	Dual Output Isolation Transformer	\$225.00



LEADER

18V Single Output Power Supplies

These power supplies provide low ripple and noise including excellent line and load regulation to maintain clean, stable output even under adverse conditions. They feature constant current/constant voltage modes, coarse and fine adjustment for both voltage and current for accurate setability, and 3-1/2 digit LED readout. Three 18V models to choose from with currents to 20A. All models come complete with manual and 2-year warranty.

Part No.	Model	Description	Price
122-881	7185D	Power Supply, 18V, 5A	\$495.00
122-878	71810D	Power Supply, 18V, 10A	\$735.00
122-879	71820D	Power Supply, 18V, 20A	\$1,150.00

Leader Single-Output Specifications			
Model	7185D	71810D	71820D
Output Voltage (DC)	0-18V	0-18V	0-18V
Output Polarity	+ or -	+ or -	+ or -
Output Current	0-5A	0-10A	0-20A
Constant Voltage			
Ripple (rms)	≤1mV	≤1mV	≤1mV
Line Regulation		≤0.01%+3mV	
Load Regulation	≤0.01%+5mV		≤0.02%+5mV
Constant Current			
Ripple (rms)	≤3mA	≤3mA	≤5mA
Line Regulation		≤0.02%+3mA	
Load Regulation		≤0.02%+3mA	
Meter			
Voltmeter	3-1/2 Digit 0.5" LED ±(0.5% of reading + 2 digits)		
Ammeter	3-1/2 Digit 0.5" LED ±(0.5% of reading + 2 digits)		
Size (WxHxL), in.	5X5.7X11.2	10X5.7X13.2	10X5.7X16.5
Weight	11 lbs.	25.3 lbs.	40.7 lbs.
Power	100V, 120V, 220V, 240V AC, 50/60 User Switchable		

New

GW INSTEK

Multi-Output D.C. Power Supply

- Independent isolated outputs
- Four 3-digit LED displays
- 0.01% Load and line regulation
- Low ripple and noise
- Tracking operation and auto series/parallel operation
- Output ON/OFF switch
- Fan speed control
- Overload and reverse polarity protection

Three different power supplies, all at attractive prices. All units measure 10.0" x 5.7" x 10.4", weigh 18.7 lbs and ship complete with a power cord and instruction manual.

Part No.	Model	Description	Price
420-992	GPS-2303	Dual Output Power Supply	\$370.00
420-993	GPS-3303	Triple Output Power Supply	\$420.00
420-994	GPS-4303	Quad Output Power Supply	\$450.00

EXTECH INSTRUMENTS

Triple-Output Power Supplies

Independent 5V and 12V Outputs Provide Power for TTL or CMOS Projects

- One variable output at 0 to 30VDC, 0-3A
- One fixed output at 12VDC, 0-500mA
- One fixed output at 5VDC, 0-500mA

Power supplies are available with analog displays or 3-digit LCD displays (0.1V resolution) with a voltage resolution down to 0.1V and current down to 0.01A. Both models feature positive or negative polarity, constant voltage and constant current modes, current limiting with front panel LED indicator, and short circuit protection. Operate at 110/220VAC, 50/60Hz, measure 6" x 5.6" x 9.5", and weigh 6.5 lbs. Come complete with manual and 1-year warranty.

Part No.	Model	Description	Price
408-699	382203	Triple Output-Analog Display	\$169.00
408-700	382213	Triple Output-Digital Display	\$199.00

Models 382213 & 382203 Specifications	
Voltage Output	12VDC fixed
Voltage Output	5VDC fixed
Voltage Output	0-30VDC
Ripple & Noise	<5mVrms
Line Regulation	<0.05%+10mv
Load Regulation	<0.05%+10mv
Output Current	500mA(12V) 500mA(5V) 0-3A(0-30V)

GW INSTEK

DC Power Supplies

- Digital read-outs
- High output

Bench-top digital DC power supplies deliver high quality, clean power for your testing and design projects. Various voltage and current ranges available. One year warranty.

Part No.	Description	Price
13-303	Single 30VDC Power Supply	\$199.00
13-181	Single 18VDC Power Supply	\$360.00

Other combinations available, call for pricing.

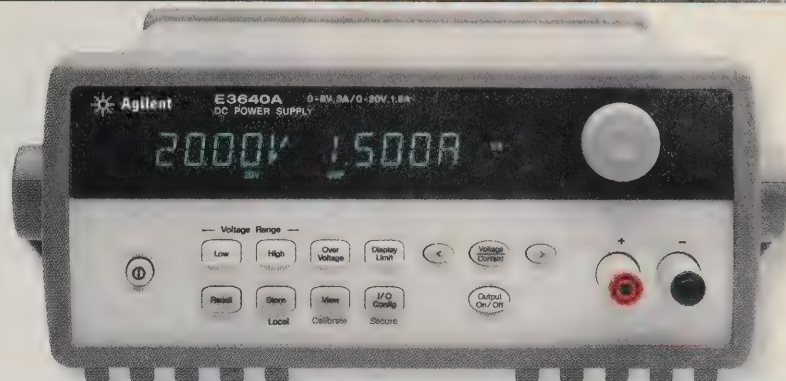
Specifications		
Model	13-303	13-181
Output channels	Single	Single
Constant Voltage	0-30V @ ≤ 0.01% regulation	0-18V @ ≤ 0.01% regulation
Operation	≤ 0.5mV ripple & noise	≤ 1mV ripple & noise
Constant Current	0-3A @ ≤ 0.2% regulation	0-10A @ ≤ 0.2% regulation
Operation	≤ 3mA ripple	≤ 3mA ripple
Meter(s)	Volts/Amperes selectable	
Power source	100-240VAC 50/60Hz	
Dimensions	5.7 x 5 x 11.2", 11 lbs.	5.7 x 10 x 13", 25.3 lbs.



Programmable, Linear DC Power Supplies

- Single and dual output models
- Dual output ranges
- Constant-current and constant-voltage modes
- Digital voltage and current meters
- Front and rear terminal outputs
- Remote sensing
- Built-in GPIB and RS-232 interfaces

This series of programmable DC power supplies deliver clean power, dependable regulation, fast transient response and built-in GPIB and RS-232 interfaces. Voltage and current levels can be set to a maximum resolution of 10mV/1mA from the front panel. Up to 5 power supply setups can be stored and recalled from the internal non-volatile memory. The output on/off button sets the output to zero. Dual output models allow two voltages or two currents to be displayed simultaneously. 10 models to choose from. Six single output models with dual ranges, and four dual output models with dual ranges. All models operate on 115/220VAC 47-63Hz and come complete with operator's manual, quick reference guide, and 3-year warranty.



Part No.	Model	Description	Price
416-614	E3640A	Single Output Power Supply 8V, 3A or 20V, 1.5A	\$706.00
416-615	E3641A	Single Output Power Supply, 35V, 0.8A or 60V, 0.5A	\$706.00
416-616	E3642A	Single Output Power Supply, 8V, 5A or 20V, 2.5A	\$754.00
416-617	E3643A	Single Output Power Supply, 35V, 1.4A or 60V, 0.8A	\$773.35
416-618	E3644A	Single Output Power Supply, 8V, 8A or 20V, 4A	\$944.60
416-619	E3645A	Single Output Power Supply, 35V, 2.2A or 60V, 1.3A	\$944.60
416-620	E3646A	Dual Output Power Supply, 8V, 3A or 20V, 1.5A	\$986.00
416-621	E3647A	Dual Output Power Supply, 35V, 0.8A or 60V, 0.5A	\$986.00
416-622	E3648A	Dual Output Power Supply, 8V, 5A or 20V, 2.5A	\$1,182.00
416-623	E3649A	Dual Output Power Supply, 35V, 1.4A or 60V, 0.8A	\$1,212.30

E3640A-E3649A Specifications

Model	E3640A	E3641A	E3642A	E3643A	E3644A	E3645A	E3646A	E3647A	E3648A	E3649A
No. of Outputs	Single	Single	Single	Single	Single	Single	Dual	Dual	Dual	Dual
Output Voltage	8V or 20V	35V or 60V	8V or 20V	35V or 60V	8V or 20V	35V or 60V	8V or 20V	35V or 60V	8V or 20V	35V or 60V
Output Current	3A@8V or 1.5A@20V	0.8A@35V or 0.5A@60V	5A@8V or 2.5A@20V	1.4A@35V or 0.8A@60V	8A@8V or 4A@20V	2.2A@35V or 1.3A@60V	3A@8V or 1.5A@20V	0.8A@35V or 0.5A@60V	5A@8V or 2.5A@20V	1.4A@35V or 0.8A@60V
Load & Line Regulation	<0.01%+3mV	<0.01%+3mV	<0.01%+3mV	<0.01%+3mV	<0.01%+3mV	<0.01%+3mV	<0.01%+3mV	<0.01%+3mV	<0.01%+3mV	<0.01%+3mV
Ripple & Noise	<0.5mV	<1mV	<0.5mV	<1mV	<0.5mV	<1mV	<0.5mV	<1mV	<0.5mV	<1mV
Dimensions (WxHxL)	10" x 4.1" x 14.7"	10" x 4.1" x 14.7"	10" x 4.1" x 14.7"	10" x 4.1" x 14.7"	10" x 4.1" x 14.7"	10" x 4.1" x 14.7"	8.9" x 5.2" x 14.7"	8.9" x 5.2" x 14.7"	8.9" x 5.2" x 14.7"	8.9" x 5.2" x 14.7"
Weight	11.7 lbs.	11.7 lbs.	13.7 lbs.	13.7 lbs.	14.7 lbs.	14.7 lbs.	16.1 lbs.	16.1 lbs.	20.3 lbs.	20.3 lbs.

Programmable Linear DC Power Supplies

- 0.01% load and line regulation
- Isolated outputs
- NIST-traceable certificate of calibration
- Built-in HP-IB and RS-232 interfaces
- Save and recall up to 3 setups

These power supplies feature line and load regulation of 0.01% to ensure clean power for precision circuitry. HP-IB and RS-232 interfaces are built-in, so you can use these supplies with any PC that has an IEEE 488 card or RS-232 port. You can program and monitor both voltage and current using commands that are SCPI compliant. Other features include: save and recall of up to 3 front panel setups, and an output on/off button that disconnects the output so you can safely adjust the outputs or work with your circuit. All outputs are isolated from chassis ground and from the HP-IB and RS-232 interfaces. Two models to choose from. Model E3631A is a triple output supply. Model E3632A is a single output, dual range supply.



Triple-Output, Programmable Linear DC Power Supply

This triple output power supply has one 0-6V 5A output, and two 0-25V 1A outputs that can track together, operate independently or operate as a single 50 volt supply. Operates at 115VAC, measures 8.4" x 5.2" x 14.2" and weighs 15 lbs. Comes complete with manual, NIST-traceable certificate of calibration and 3-year warranty.

Part No.	Model	Description	Price
405-881	E3631A	Programmable, Triple Output Pwr. Sup.	\$1,238.00

Model E3631A Specifications

Output Voltage	0-6V (one), 0-25V (two)
Ripple	2mV
Output Current	5A (6V), 1A (25V)
Ripple	<500µA (25V), <2mA (6V)

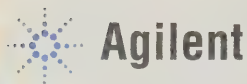
Dual-Range, Programmable Linear DC Power Supply

Dual range power supply has a 0-15V 7A output that can be switched to 0-30V 4A when a higher voltage and lower current are needed. Unit operates at 115VAC, measures 8.4" x 5.2" x 13.7" and weighs 21 lbs. Comes complete with manual, NIST-traceable certificate of calibration and 3-year warranty.

Part No.	Model	Description	Price
405-882	E3632A	Programmable, Dual Range Pwr. Sup.	\$1,109.75

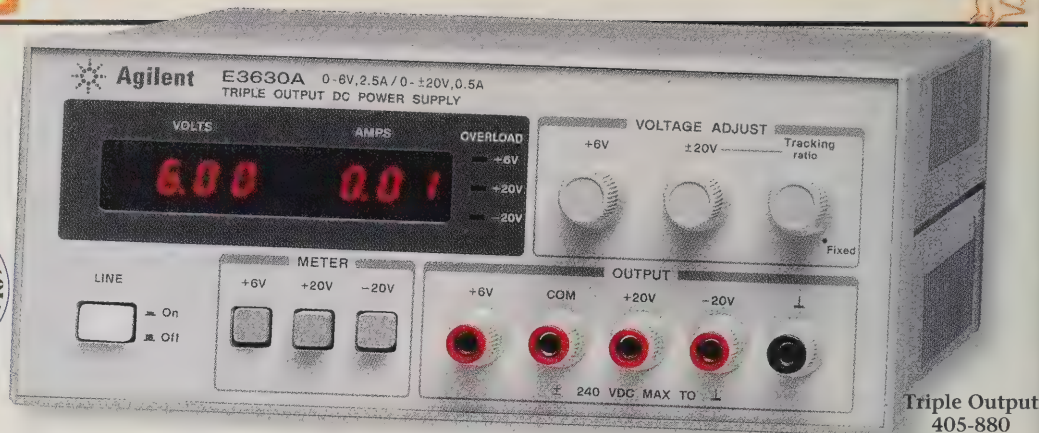
Model E3632A Specifications

Output Voltage	0-15V or 0-30V
Ripple	<2mV
Output Current	7A (15V), 4A (30V)
Ripple	<2mA



E3600 Series Linear DC Power Supplies

- Nine models, up to 120V, 6A
- Constant-current and constant-voltage modes
- Digital voltage and current meters
- NIST-traceable certificate of calibration



The E3600 series of power supplies provide clean power with tight linear regulation, fast transient response, and low ripple and noise. The constant current (CC)/constant voltage (CV) output allows operation as either a voltage source or current source. The changeover occurs automatically based on the load. This feature also provides an adjustable current limit. A CC-set button allows you to set

the current limit without having to short the output. Nine models to choose from including: three single output models with dual ranges, four single output models with single range, one dual output model, and one with triple output. All models come complete with operator's manual, NIST-traceable certificate of calibration, service manual and 3-year warranty.

Single-Output with Dual Ranges

Models E3610A/11A/12A have all of the above features plus dual ranges allowing more current at lower voltage.

Part No.	Model	Description	Price
405-872	E3610A	Power Supply, 8V, 3A or 15V, 2A	\$431.00
405-873	E3611A	Power Supply, 20V, 1.5A or 35V, 0.85A	\$431.00
405-874	E3612A	Power Supply, 60V, 0.5A or 120V, 0.25A	\$431.00

Single Output — Dual Ranges Specifications

	E3610A	E3611A	E3612A
No. of Outputs	Single	Single	Single
Output Voltage	8V or 15V	20V or 35V	60V or 120V
Output Current	3A@8V or 2A@15V	1.5A@20V or .85V@35V	.5A@60V or .25A@120V
Load & Line Regulation	0.01%+2mV	0.01%+2mV	0.01%+2mV
Ripple & Noise			
rms	200µV	200µV	200µV
Peak-to-peak	2mV	2mV	2mV
Resolution			
Voltage	10mV	10mV	100mV
Current	5mA	5mA	2mA
Power	115VAC 47 to 63Hz	115VAC 47 to 63Hz	115VAC 47 to 63Hz
Dimensions (WxHxL)	8.4" x 3.6" x 12.6"	8.4" x 3.6" x 12.6"	8.4" x 3.6" x 12.6"
Weight	10 lbs.	10 lbs.	10 lbs.

Dual-Output and Triple-Output

Model E3620A has dual, completely isolated and independent outputs. Model E3630A has a triple output.

Part No.	Model	Description	Price
405-879	E3620A	Dual Output Power Supply, 25V, 1A	\$603.10
405-880	E3630A	Triple Output Power Supply	\$588.00

Dual Output and Triple Output Specifications

	E3620A	E3630A
No. of Outputs	Dual	Triple
Output Voltage	25V (2) 6V	±20V
Output Current	1A	.5A@20V & 2.5A@6V
Load & Line Regulation	0.01%+2mV	0.01%+2mV
Ripple & Noise		
rms	350µV	350µV
Peak-to-peak	1.5mV	1.5mV
Resolution		
Voltage	10mV	10mV
Current	1mA	10mA
Power	115VAC 47 to 63Hz	115VAC 47 to 63Hz
Dimensions (WxHxL)	8.4" x 3.6" x 15.8"	8.4" x 3.6" x 12.6"
Weight	16 lbs.	11 lbs.

Single-Output with Single Range

Models E3614A/15A/16A/17A have all of the described features, plus adjustable overload protection, front and rear connections, and remote sensing to measure voltage at the load and automatically compensate for voltage drops.

Part No.	Model	Description	Price
405-875	E3614A	Power Supply, 8V, 6A	\$675.00
405-876	E3615A	Power Supply, 20V, 3A	\$675.00
405-877	E3616A	Power Supply, 35V, 1.7A	\$675.00
405-878	E3617A	Power Supply, 60V, 1A	\$675.00

Single Output — Single Range Specifications

	E3614A	E3615A	E3616A	E3617A
No. of Outputs	Single	Single	Single	Single
Output Voltage	8V	20V	35V	60V
Output Current	6A	3A	1.7A	1A
	0.01%+2mV	0.01%+2mV	0.01%+2mV	0.01%+2mV
Ripple & Noise				
rms	200µV	200µV	200µV	200µV
Peak-to-peak	1mV	1mV	1mV	1mV
Resolution				
Voltage	10mV	10mV	10mV	100mV
Current	10mA	5mA	5mA	5mA
Power	115VAC 47 to 63Hz	115VAC 47 to 63Hz	115VAC 47 to 63Hz	115VAC 47 to 63Hz
Dimensions (WxHxL)	8.4" x 3.6" x 15.8"	8.4" x 3.6" x 15.8"	8.4" x 3.6" x 15.8"	8.4" x 3.6" x 15.8"
Weight	16 lbs.	16 lbs.	16 lbs.	16 lbs.



Isolated AC Power Supplies

Two models to choose from. Model 1653A has a current range of 0-2A (2A continuous), measures 8.5" x 3.75" x 8" and weighs 12 lbs. Model 1655A has two current ranges (0-2A, 0-4A; 3A continuous, 4A intermittent), a power line leakage tester (0-5000µA), two volt-amp measurement ranges (0-240VA, 0-480VA), and a solder iron temperature control. Unit measures 12" x 6" x 11" and weighs 22 lbs. 1-year warranty.

Part No.	Model	AC Output	No. of Outputs	Leakage Test	Price
406-286	1653A	0-150V 0-2A	1	No	\$319.00
122-370	1655A	0-150V 0-4A	2	Yes	\$529.00

Model 1653A



Model 1655A



Dale Technology Medical Test Instruments

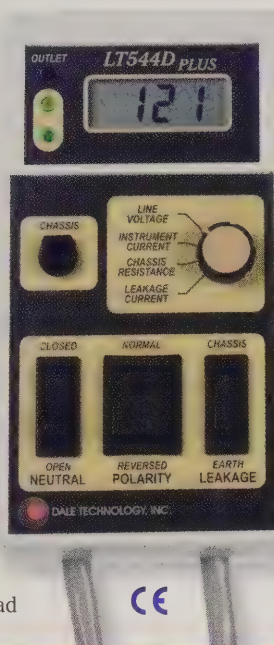
The Dale Technology product line includes test instruments designed to verify the performance and calibration of medical devices. These devices include defibrillators, external pacemakers, infusion pumps, electrosurgical generators, rigid endoscopes, and even radiology equipment.



LT554 Digital Safety Tester

- 4 wire Kelvin bridge to eliminate errors due to cable length
- True RMS measurement of all leakage current
- Test method complies w/ ANSI/AAMI ES1-1993

Use the Dale LT544D to perform quick and easy safety tests on medical equipment, when patient lead testing is not required. A simple selector knob controls the functions, Line Voltage, Instrument Current, Leakage Current and Chassis Resistance. The LT544Plus adds the features of line voltage read out and outlet polarity indication.



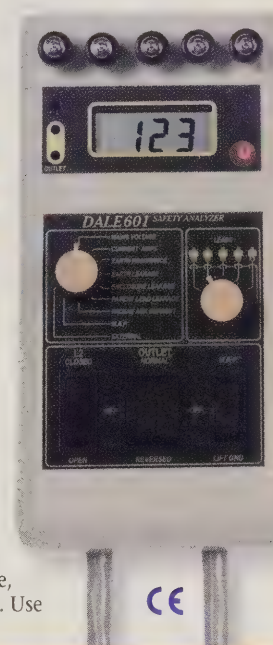
Part No.	Model	Description	Price
420-661	LT544D Lite	Digital Safety Tester	\$515.00
420-662	LT544D Plus	Digital Safety Tester	\$725.00

601 Electrical Safety Analyzer



- Simple operation
- Accurate measurement for each test via single range meter
- 4-wire Kelvin bridge for accurate resistance measurements
- 5 Universal EKG lead connectors
- Selectable switch for AAMI or IEC601 test load
- Universal labeling
- CE marking

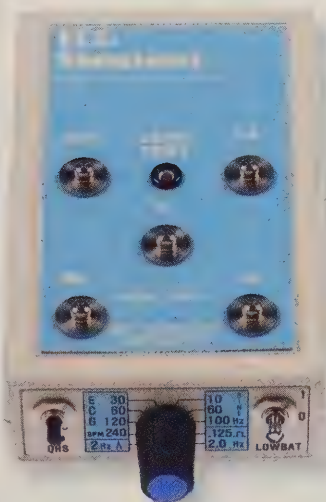
New Dale 601 hand-held safety analyzer is cost effective and comes complete with 600/100 chassis cable (8 ft), 600/600 padded carrying case, instruction manual and certificate of calibration. Use 601 for 117 VAC and 601E for 230 VAC.



Part No.	Model	Description	Price
420-659	601	Electrical Safety Analyzer	\$935.00
420-660	601E	Electrical Safety Analyzer	\$935.00

ECG Patient Simulator

The Dale ECG Simulators are compact, self-powered devices that provide ten different waveforms. There are 4 ECG waveforms (30-240 bpm) with constant QRS duration, and 6 machine-performance testing waveforms plus a PVC test wave. Accurate performance is assured by the built-in test capabilities that monitor battery condition and proper circuit functioning. Waveform accuracy is determined by a highly stable crystal frequency source and a reference voltage device. Both units provide 200 hours of continuous operation on a 9 V battery.



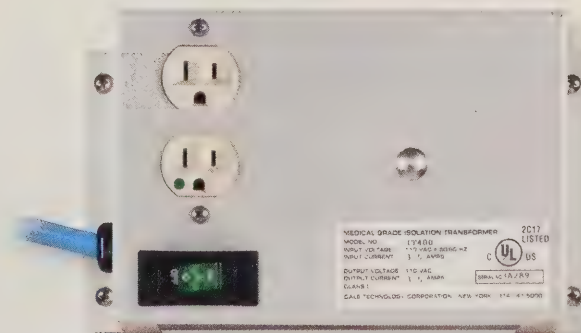
Part No.	Model	Leads	Description	Price
420-667	EHS 10	5	Patient Simulator	\$300.00
420-668	EHS 12	10	Patient Simulator	\$390.00

IT400 Medical Grade Isolation Transformer

- High efficiency transformer for minimal size and weight
- Hospital grade receptacles
- Low leakage power cable

UL/CSA Listed

Dale Isolation Transformers will turn any equipment that does not comply with leakage current standards into a medically safe instrument. Computers, peripherals, monitors, VCR's and video cameras often have leakage currents in excess of medical standards.



Specification	
Current Capacity	3.5 A
Power	400W
Leakage	25 μ A
Duplex Receptacle	1 or 2

Part No.	Model	Description	Price
420-670	IT400	Medical Grade Isolation Transformer	\$350.00



Clamp-On Ground Resistance Tester

New

Simplifies Ground Resistance Measurements on Multiple Point Ground Systems

- Includes datalogging feature
- Ground resistance measurements down to 0.03Ω with 0.02Ω maximum resolution
- AC leakage current range of 0.2mA to 15A with 0.001mA maximum resolution
- Clearly marked rotary switch operation
- 0.9" jaw size for large ground rods
- Electrical noise detection feature prevents inaccurate readings
- Verification resistors confirm accuracy of meter
- Data hold & continuity beeper
- Automatic self calibration when powered on
- CAT II rated at 600V
- CAT III rated at 300V
- One year manufacturer's warranty



Enables non-contact measurement of ground conductors without need for auxiliary ground spikes. Comes complete with 9V battery, resistance check plate and carrying case.

Applications: Verify resistance of cellular and communication tower ground grids, check utility transmission systems, ideal for grounding systems in sub-stations, factories and office buildings.

Part No.	Model	Description	Price
425-037	382357	Ground Resistance Tester	\$1,399.00

New

Earth Ground Resistance Test Kit

Includes All Hardware Necessary to Measure Earth Ground in Three Ranges

- 3-1/2 digit (1999 count) multi-function LCD w/datahold
- Measure resistance in 3 ranges (20/200/2000Ω)
- 2mA (800Hz) test current & frequency
- 0 to 200VAC (40 to 500Hz) AC earth voltage/frequency
- Auto power off & 3 minute timer
- Overload protection
- Open circuit, overrange, & low battery indications

Kit includes: test leads, auxiliary earth bars, heavy-duty case and 6 1.5V AA batteries.

Applications: Check compliance NEC & OSHA specifications, measure earth resistance of single rod or small ground grids, check lightning protection, remote tower & electrode equipment.



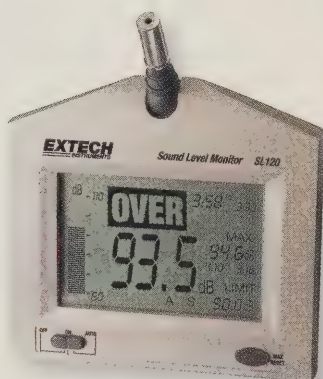
Part No.	Model	Description	Price
412-501	382152	Digital Earth Ground Resistance Test Kit	\$199.00
417-611	382153	Replacement Earth Bars, 2/Pkg	\$19.00
417-612	382154	Replacement Set of Test Leads	\$29.00

New

Sound Level Monitor with Alarm

Programmable Limit Provides a Warning When Sound Level Exceeds Setpoint

- Continuous monitoring of sound level
- User specified limit 30 to 130dB with over indicator
- Large digital display can be viewed from up to 30 ft
- Max dB date/time stamp
- Programmable on/off times
- Rear panel controls prevent unauthorized programming
- ANSI Type II compliant



Comes complete 8 AA batteries. Optional AC adapter available.

Part No.	Model	Description	Price
425-384	SL120	Sound Level Monitor	\$249.00
402-758	153117	120VAC Adapter	\$25.00

New

Combination Tachometer/IR Thermometer

Provides Wide RPM and Linear Surface Speed Measurements

- Non-contact IR thermometer
- Non-contact tachometer for RPM measurements using a narrow beam laser light source
- Contact tachometer for surface speed measurements
- Fixed 0.95 emissivity covers 90% of surface applications
- Measurements from up to 6.5 ft for improved safety & accessibility
- Accuracy to 0.05% with max resolution of 0.1RPM
- Large 0.4" 5-digit LCD display

Comes complete with tips and wheel for RPM linear surface speed, 4 1.5V AA batteries, reflective tape, rubber boot, and carrying case.



Part No.	Model	Description	Price
425-385	RPM10	Tachometer/IR Thermometer	\$329.00

CALIBRATORS INC.

Benchtop Voltage Reference Source

- ±19.999V in 1mV steps
- ±25ppm of setting ±1/2LSB
- NIST-traceable certificate of calibration



This 4-1/2 digit voltage reference source has a full-scale output range of ±19.999V in 1mV steps, and features an active buffered output amplifier that provides very low output impedance up to 25mA, at the rated accuracy of ±ppm of setting, ±500µV. The short-circuit-proof output is selected by the digital thumb-wheel switches, and the output voltage may be continuously varied within ±1.5mV of the selected reading by using the front panel vernier control. Voltage drop caused by lead resistance can be compensated for by using the rear-panel, 36-pin gold-plated, edge-card connector, which provides a parallel output with 4-wire remote sense capability. Wideband output noise is less than 25µV pk-pk. An oven-stabilized zener-diode provides overall accuracy with a zero drift of less than ±5µV/°C and a full-scale drift of 4ppm/°C. Unit operates at 115VAC and comes complete with manual, test leads, certificate of calibration and 18-month warranty.

Part No.	Model	Description	Price
123-593	DVC8500A	Voltage Reference Source	\$1,315.00
122-638	388193033	Panel Mount Kit	\$75.00

FLUKE®



789 Process Meter

Combines a loop calibrator and multimeter. Large display. Built-in HART 250 ohm resistor. 24V loop power supply. 1200 ohm drive capability on mA source. 0-100% mA span check buttons to toggle between 4 and 20mA. Simultaneous mA and % of scale readout. Complete DMM functions with voltage tests to 1000V, 440mA current. IR communication port allows data to be logged to optional FlukeView Forms® software for graphical analysis and reporting.



Part No.	Model	Description	Price
419-785	789	ProcessMeter	\$695.00

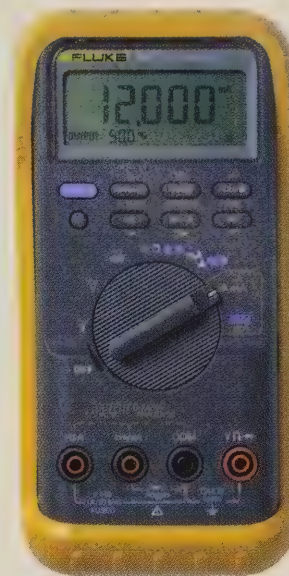
Specifications		
Measure/Source	Range	Accuracy
Volts	0-1000V AC/DC True RMS	0.1% AC/0.7% DC
Current	0-30 mA DC	0.05%
	30-440 mA DC	0.2%
	0-440mA AC	1.0%
	4-20mA DC Source	0.05%
Resistance	0-40MΩ	0.2%
Frequency	0-20kHz	.005%

FLUKE®

Model 787 Process Meter™

Combines a True RMS DMM with a Loop Calibrator

- True RMS DMM & Loop Calibrator in one tool
- 0.1% basic accuracy
- IEC-61010-1 1000V, CAT III
- Dust- and splash-resistant and EMI-shielded
- Externally accessible battery for easy battery changes



Combines the familiar features of the Model 87 DMM with a Loop Calibrator that adds the ability to measure, source and simulate DC loop current with 0.05% accuracy and 1µA resolution. The DMM measures True RMS AC voltage and current, DC voltage and current, resistance, frequency and continuity. Additional features include: continuity beeper, diode test, Min/Max/Average mode, Hold function and Relative mode. The DC loop calibrator features a 20mA current source/simulator that will simultaneously display mA and % of scale readout. In addition, it features Manual Step (25%, Coarse, Fine) plus Auto Step and Auto Ramp. Unit operates on 9V battery (included), measures 2.06 Ω x 3.86 Ω x 7.93 Ω and weighs 1.4 lbs. Comes complete with manual, TL75 test leads with AC70A alligator clips, protective yellow holster and 3-year warranty.

Part No.	Description	Price
406-314	Model 787	\$579.00

Specifications	
Measurement Function	
DC Voltage	400mV 4V 40V 400V 1000V
True RMS AC Voltage	400mV 4V 40V 400V 1000V
AC/DC Current	30mA (DC only) 1A (0.440 A continuous)
Resistance	400Ω 4KΩ 40KΩ, 400KΩ 4MΩ 40MΩ
Frequency	200Hz 2KHz 20KHz
Resolution down to:	0.1mV, 0.001mA (DC), 1mA (AC), 0.1Ω 0.01Hz
Output Function	
DC Current Output	0 to 20mA or 4 to 20mA (selectable at power-up)(internal battery operation) Over-range to 24mA
DC Current Simulate	0 to 20mA or 4 to 20mA (selectable at power-up)(external 24V loop supply) Over-range to 24mA
Current adjustment modes	Manual: Coarse, Fine, 25% step Automatic: Slow Ramp, Fast Ramp, 25% step
Resolution down to:	1µA



For an expanded selection of test equipment visit contacteast.com or jensentools.com

FLUKE®



Color ScopeMeter™



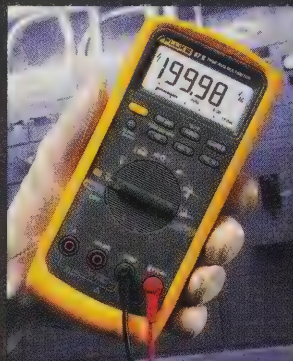
Clamp Meter



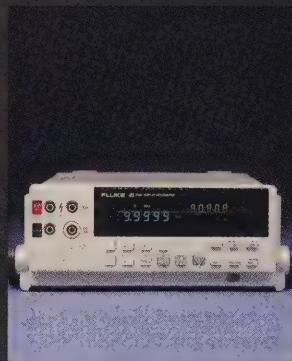
Digital Multimeter



Digital Thermometer



New Industrial DMM



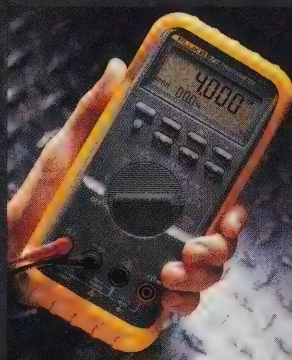
Bench Meter



3-Phase Power Quality Analyzer



DMM Accessories



Process Meter™

The fastest way to put a Fluke tool in your hand.

Whether it's crunch time or not, Contact East / Jensen Tools has the expertise and Fluke tools you need to get the job done, fast.

Don't be unprepared and don't use a tool you can't trust. Fluke tools are designed to take the abuse and still deliver the reliable results you require, no matter how tough the job.

You'll find a complete line of rugged, reliable Fluke test tools inside this catalog. And you'll find that, at Contact East / Jensen Tools, they are as easy to buy as they are to use.

Are you ready to stake your reputation on your test tools? Demand the best in your test equipment. With Fluke, you're better equipped to troubleshoot whatever challenges come your way.

Call Contact East / Jensen Tools today and see how easy and fast it is to get a Fluke test tool in your hands.

1-800-225-5370

www.contacteast.com

www.jensentools.com

Fluke. *Keeping your world up and running.*

They're rugged. They're reliable. And they're all inside.

DDMM Selection Guide

Model	110	111	112	12	16	175	177	179	187	189	83 V	87 V	73	787	789
Basic features															
Counts	6000	6000	6000	4000	4000	6000	6000	6000	50000	50000	4000	20000	3200	30000	30000
True RMS readings	AC	AC	AC			AC	AC	AC	AC+DC	AC+DC		AC		AC	AC
Basic DC accuracy	0.7%	0.7%	0.7%	0.9%	0.9%	0.15%	0.09%	0.09%	0.025%	0.025%	0.1%	0.05%	0.3%	0.1%	0.1%
Wide bandwidth									100kHz	100kHz	5kHz	20kHz			
Auto & manual ranging	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Measurements															
Voltage AC/DC	600V	600V	600V	600V	600V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	600V	1000V	1000V
Current AC/DC		10A	10A		200μA	10A	10A	10A	10A	10A	10A	10A	10A	1A	1A
Resistance	40MΩ	40MΩ	40MΩ	40MΩ	40MΩ	50MΩ	50MΩ	50MΩ	500MΩ	500MΩ	50MΩ	50MΩ	32MΩ	40MΩ	40MΩ
Frequency	50kHz	50kHz	50kHz			100kHz	100kHz	100kHz	1MHz	1MHz	200kHz	200kHz		20kHz	20kHz
Capacitance	10mF	10mF	10mF	10mF	10mF	10mF	10mF	10mF	50mF	50mF	5μF	10mF			
Temperature					+400°C			+400°C	+1350°C	+1350°C		(+) 1090°C			
dB									60dB	60dB					
Conductance									50nS	50nS	50nS	50nS			
Duty cycle/pulse width									●/●	●/●	●/—	●/—		●	●
Continuity with beeper	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4-20mA loop current as % readout														●	●
Display															
Dual display									●	●				●	●
Analog bargraph	●	●	●			●	●	●	●	●					
Backlight			●				●	●	●	●				●	●
Data storage & exchange															
Min-Max recording/with time stamp	●/—	●/—	●/—	●/●	●/●	●/—	●/—	●/—	●/●	●/●	●/—	●/—	●/—	●/—	●/—
Display Hold/Touch Hold	●/—	●/—	●/—			●/●	●/●	●/●	●/●	●/●	●/—	●/—	●/—	●/—	●/—
Relative									●	●	●	●		●	●
RS-232 interface									●	●				●	●
Stand-alone logging										●					
Readings memories										100					
Other features															
Source 4-20mA loop current														●	●
Real time clock									●	●					
Smoothing						●	●	●	●	●					
Closed case calibration	●	●	●			●	●	●	●	●				●	●
Warranty and safety															
Lifetime warranty						●	●	●	●	●	●	●	●		
Warranty (years)	3	3	3	3	3				●	●	●	●		3	3
Input alert									●	●	●	●			
Dangerous voltage indication	●	●	●			●	●	●	●	●	●	●			
EN61010-1 CAT II															
EN61010-1 CAT III	600V	600V	600V	600V	600V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	600V	1000V	1000V
EN61010-1 CAT IV						600V	600V	600V	600V	600V					
See Catalog Page	117	117	117	116	116	112	112	112	113	113	115	115	117	109	109



417-138



417-134



417-136



The 170 Series Digital Multimeters

- True RMS
- Improved accuracy
- Rugged overmolded case

The next generation of Fluke digital multimeters, the 170 series packs a lot of features into low-cost design. Features like a 6000 count, large digit display, 0.09% basic DC accuracy, Min/Max/Avg. Press the HOLD button and the display freezes on the current reading. Use Auto HOLD and the display holds present reading until a new, stable input, then the meter beeps and displays the new reading. Great for working in awkward spots. The continuity detector stretches the beep out so you can detect opens or shorts as fast as 250 microseconds in duration. The 170s are smart, they warn you when you switch to and from amps, so you change the test lead orientation.

They are all rated to Cat IV and have an easy access battery door. The 177 and 179 both have a back light for use in dark environments. The 179 even measures temperature. The meters measure 1.7 x 3.5 x 7.3" and weigh 14.7 ounces. They are powered by a 9V alkaline battery, included and come with test leads.

Part No.	Description	Price
417-134	Fluke 175 DMM, Digital Multimeter	\$189.00
417-136	Fluke 177 DMM, Digital Multimeter	\$209.00
417-138	Fluke 179 DMM, Digital Multimeter	\$219.00
317-175-C	Fluke 175 DMM, w/Calibration Certificate	\$205.00
317-177-C	Fluke 177 DMM, w/Calibration Certificate	\$235.00
317-179-C	Fluke 179 DMM, w/Calibration Certificate	\$255.00

Specifications			
	175	177	179
DCV	0.1mV-1000V ±0.15%	0.1mV-1000V ±0.09%	
ACV	0.1mV-1000V ±1% (±2% >500Hz)		
DCA	0.01mA-10.00A ±1.0%		
ACA	0.01mA-10.00A ±1.5%		
Resistance	0.1Ω-50.00MΩ ±0.9%		
Capacitance	1 nF-9999μF ±1.2%		
Frequency	2Hz-100kHz ±0.1%		
Temperature	na	na	-40°F-752°F ±1%

Features	
Digital display	6000 counts @ 4 updates/second
Analog bargraph display	33 segments @ 40 updates/second
Backlight 177 and 179	Auto off after 2 minutes
Closed case calibration	No internal adjustments needed
Probe holders	Instrument case includes probe holders
High-impact overmolded case	Integrated overmolded case provides impact superior protection for your meter

Calibrated Meters with this symbol ship within 24 hours.

24



ToolPak

Optional Strap-On Accessories

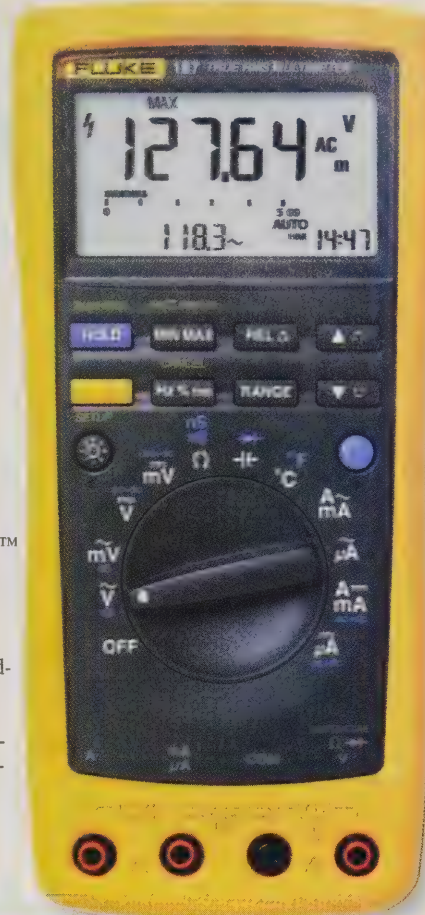
ToolPak for hands-free testing. Hanging strap, nail/screw hanger or magnet hanger.

Part No.	Description	Price
416-405	ToolPak	\$25.00

180 Series 50,000 Count True RMS DMMs

The Newest Generation In High Performance DMMs

- IEC-61010-1 1000V, CAT III
- IEC-61010-1 600V, CAT IV
- Capacitance
- Selectable 50,000/5,000 count
- Built-in real-time clock
- Dual display plus 51-segment analog bargraph
- Battery or fuse replaceable without voiding calibration
- Data logging (Model 189 only) with adjustable threshold using optional software
- Optional temperature measurement
- 0.025% basic accuracy
- Rugged overmolded case
- Frequency
- 100KHz AC bandwidth
- Built-in Infrared PC interface



These models measure AC/AC+DC/DC voltage, AC/DC current, resistance, conductance, frequency, capacitance, duty cycle/pulse width and dBm/dBV. Features include: diode test, continuity beeper, auto hold, relative mode, min/max/avg, fast min/max (captures peaks to 250µs), and a backlit display with two brightness levels. A built-in infrared PC interface provides real-time logging for analysis and documentation of your data using optional FlukeView™ Forms Software. The DMMs communicate by an infrared (IR) interface which makes data transfer fast and easy. FlukeView Forms is meter-aware so there aren't any configuration problems. The software, using the IR port, will automatically transfer data. If your computer doesn't have an IR interface, the software comes with an IR adapter and cable that lets your PC communicate with your DMM. In addition, temperature measurement from -328 to 2462°F (-200 to 1350°C) can be made using the optional 80AK (411-259) temperature adapter module with any K-type probe. Two models to choose from. **Model 187** has all of the above features. **Model 189** has all of the above features plus, storage of 100 readings using Save mode, and stand-alone data logging of measurement changes (up to 3 days) with a real-time stamp. Both models operate on four "AA" batteries (included), measure 8" x 3.94" x 1.97" and weigh 1.2 lbs. Come complete with manual, TL71 test leads, AC70A alligator clips and a **Lifetime Warranty**. Available with or without certificate of calibration. An optional ToolPak™ (416-405) provides a universal hanger, a magnet, and 9" and 17" "hook-and-loop" straps to hang your DMM virtually anywhere for hands-free operation. In addition, an optional LockPak™ (411-251) security accessory can be combined with a cable and padlock for securing your DMM in place to reduce the threat of theft or loss.

180 Series Specifications

Model	187	189
AC/DC Voltage	50mV, 500mV, 3000mV, 5V, 50V, 500V, 1000V	
AC/DC Current	500µA, 5,000µA, 50mA, 400mA, 5A, 10A	
Resistance	500Ω, 5KΩ, 50KΩ, 500KΩ, 5MΩ, 30MΩ, 100MΩ, 500MΩ	
Conductance	50nS	
Frequency	500Hz, 5KHz, 50KHz, 1000KHz	
Capacitance	1.nF, 10nF, 100nF, 1µF, 10µF, 100µF, 1,000µF, 10mF, 50mF	
dBV	-52 to -6, -6 to +34, +34 to +60	
Duty Cycle/Pulse Width	10 to 90%/5ms, 500ms, 1000ms	
Temperature(with 80AK adapter)	-328 to +2462°F (-200 to 1350°C)	
Data Logging	No	Yes
Resolution down to:	1µV, .01µA, 10mΩ, 0.01nS, 0.01Hz, 0.001nF, 0.01dB, 0.01%/0.01ms, 0.1°	

Part No.	Model	Description	Price
416-683	187	Digital Multimeter	\$389.00
24 317-387-C	187	Digital Multimeter with Certificate of Calibration	\$435.00
416-685	189	Logging Multimeter	\$399.00
24 317-879-C	189	Logging Multimeter with Certificate of Calibration	\$455.00
416-687	FVF-SC2	Fluke View Forms Software and Cable	\$150.00
191-964	80AK	Temperature Adapter Module	\$15.00
416-405	TPAK	ToolPak	\$25.00
411-251	LPAK80-4	LockPak	\$20.00

Calibrated Meters with this symbol ship within 24 hours.

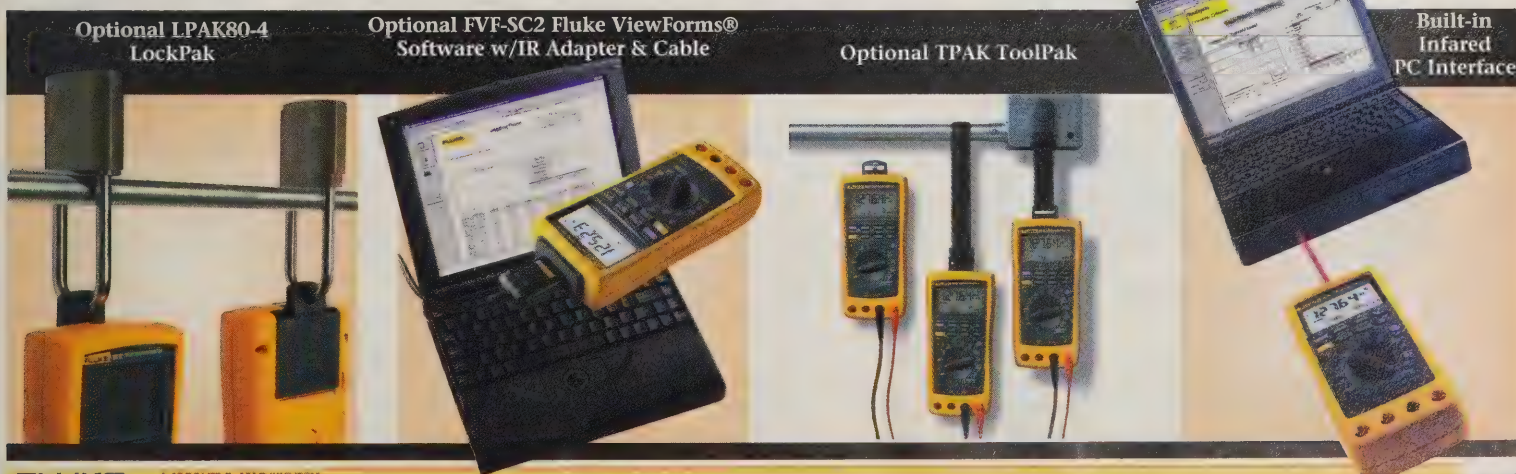


Optional LPAK80-4 LockPak

Optional FVF-SC2 Fluke ViewForms® Software w/IR Adapter & Cable

Optional TPAK ToolPak

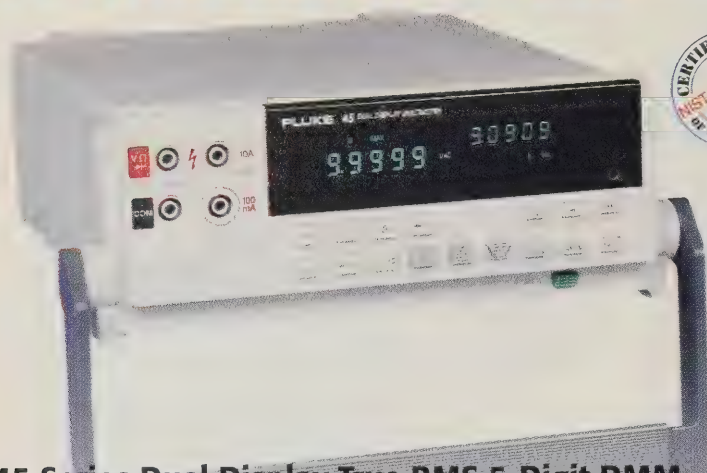
Built-in Infrared PC Interface



FLUKE® Lifetime Warranty

Each Fluke Series DMM will be free from defects in material and workmanship for its lifetime. This warranty does not cover fuses, disposable batteries and damage from accident, neglect, contamination, misuse or abnormal conditions of operation or

handling, including overvoltage failures caused by use outside the DMM's specified rating, or normal wear and tear of mechanical components. LCD display warranty is for 10 years. This warranty covers the original purchaser only.



45 Series Dual Display True RMS 5-Digit DMM

Two Displays and 16 Different Measurement Capabilities

- Autorange
- Relative mode
- True RMS
- Min/Max. mode
- 3 sampling rates
- 0.025% accuracy
- Compare function
- Touch-Hold
- Frequency and dB measurements

This 5-digit, 100,000-count DMM lets you measure two signal parameters from a single test connection and view both measurements at the same time. This is particularly useful in applications requiring two different measurements of the same signal. You can select the measurement rate (2.5, 5, or 20 readings/second) and the Compare function allows for fast tolerance limits testing. Upper and lower limits are entered through the front panel. Readouts show both Hi/Lo/Pass evaluation and measured value. dB measurements can be made

with front panel selection of any of twenty-one reference impedances from 2 ohms to 8,000 ohms. For 2, 4, 8 and 16 ohm impedances, the meter automatically calculates and displays audio power in watts. Additional features include Touch-Hold function, Relative reference, Min/Max mode, audible continuity and diode test. The built-in RS-232 interface allows measurement data to be filed, manipulated or transmitted by modem. The print mode automatically formats measurement data for printing on an RS-232 printer. Closed case calibration can also be performed via the RS-232 interface or manually from the front panel. No internal adjustments are required. Comes complete with operator's manual, quick reference guide, line cord, test leads, and a 1-year warranty. 3.67"H x 8.5"W x 11.27"D. Weighs 5.2 lbs. All units operate at 90-264VAC, 50/60Hz (no switching necessary) and are also available with rechargeable battery. Available with or without certificate of calibration.

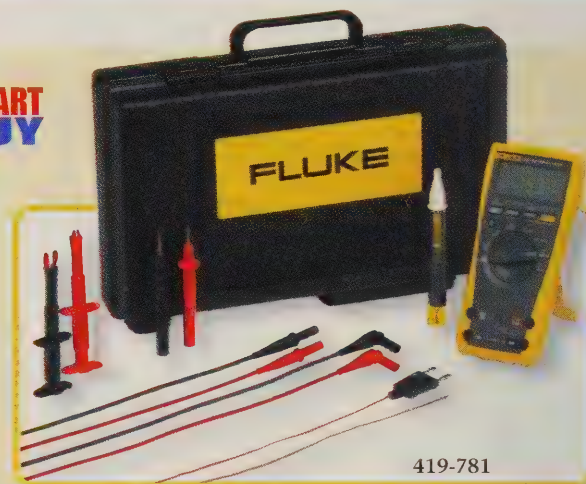
Part No.	Description	Price
317-165	Model 45	\$849.00
123-421	Model 45 with Certificate of Calibration	\$917.00
122-687	Model 45-01 DMM w/Factory Installed Battery	\$979.00
122-689	Model 45-05 DMM w/IEEE488.2 Interface	\$999.00

Model 45 Ranges	
DC Voltage	100mV 1V 10V 100V 1000V
AC Voltage	100mV 1V 10V 100V 750V
DC Current	30mA 100mA 10A
AC Current	10mA 30mA 100mA 10A
Resistance	200Ω 1KΩ 10KΩ 100KΩ 1MΩ 10MΩ 300MΩ
Frequency	1KHz 10KHz 100KHz 1000KHz 1MHz

New



419-780



419-781



419-782

FLUKE KITS

Save Money with Fluke Combo Kits

Designed for electricians, electronics techs, HVAC and industrial techs these kits offer discounts on the most popular combos of Fluke test equipment. Housed in durable carry cases for protection. Significant savings over separate purchase. The 419-780 Electrician's Multimeter and Clamp meter combo kit includes a Fluke 112 true RMS DMM, a Fluke 322 current clamp, and all test leads. The 419-781 Electrician's kit combines the Fluke 179 true RMS DMM with the 1AC electrical indicator along with modular test leads with probes and AC220 Grabber test clips. The 419-782 Electronics kit combines the Fluke 179 with deluxe accessories; modular test leads, probes and AC280 spring hooks.

Part No.	Description	Price
419-780	Electrician's kit with Fluke 112 DMM and 322 Clamp	\$219.00
419-781	Electrician's kit with Fluke 179 DMM, 1AC tester and accessories	\$259.00
419-782	Electronics kit with Fluke 179 DMM and accessories	\$259.00



New

80 Series V Digital Multimeters

Accuracy & Diagnostic Functions for Industrial Productivity

- Accurate voltage and frequency measurements on adjustable speed motor drives
- Built in thermometer
- Optional magnetic hanger frees both hands
- Large digit display with two-level backlight
- Increases your safety by withstanding 8000 V spikes

Pinpoint problems faster with the new 87V. Correctly measures the pulse width modulated output produced by ASD's. Accurately measure true-rms ac voltage, current (with optional i410 or i1010 current clamp accessories) and frequency at the motor and at the drive terminals. 80 Series V ships complete with TL75 test leads, AC72 alligator clips, removable holster, 9V battery, operator's guide, CD-ROM with user manuals, and (87 only) temperature probe. 87V/E Combo Kit includes TL222 silicone test leads, TP238 4mm removable test probes, AC220 long reach alligator clips, magnetic hanger kit, 80BK temperature probe and C800 durable carry case.

80 Series V Feature	83V	87V
True RMS voltage and current		•
Selectable filter for accurate measurements on motor drives		•
0.05% DC accuracy		•
4-1/2 digit mode for precise measurements		•
Built-in thermometer		•
Large display digits and two-level backlight	•	•
10,000 uF capacitance range for components and motor caps	•	•
Peak capture records transients as fast as 250us		•
Measure up to 1000V AC or DC	•	•
Measure up to 10 A (20A for 30 seconds)	•	•
Auto and manual ranging	•	•
Analog bargraph	•	•
Resistance, continuity and diode test	•	•
Frequency to 200 KHz and % duty cycle	•	•
Min/Max/Avg recording to capture variations automatically	•	•
Relative mode removes test lead resistance from low ohms measurements	•	•
Improved sleep mode for longer battery life	•	•
Access door for fast battery changes w/o breaking calibration seal	•	•
Cat IV 600V and Cat III 1000V safety ratings	•	•
Bead type thermocouple temperature probe		•

Part No.	Model	Description	Price
424-283	87V	Industrial True-RMS Multimeter	\$349.00
24≡ 424-299-C	87V-C	Industrial True-RMS Multimeter-Calibrated	\$417.00
424-284	83V	Industrial Multimeter	\$329.00
24≡ 425-000-C	83V-C	Industrial Multimeter-Calibrated	\$357.00
424-285	87V/E	Industrial Electrician Combo Kit	\$399.00
24≡ 425-001-C	87V/E-C	Industrial Electrician Combo Kit-Calibrated	\$425.00
425-009	TL238	SureGrip™ High Energy Test Lead Set	\$45.00
425-011	H80M	Holster with magnetic strap	\$25.00
425-012	LVD1	Volt light	\$20.95
425-612	i400	80I-400 Clamp-On AC Current Probe	\$95.00
423-668	80PK-26	Tapered temperature probe	\$70.00

Calibrated Meters with this symbol
ship within 24 hours.

24



330 Series of Digital Clamp Meters

- Improved fit and feel
- Operate with one hand
- Lots of new features

First you'll notice how snug these new clamps fit your hand, with the rotary switch perfectly positioned for thumb operation and the opening lever falling under your index finger. Even the rounded bottom of the case makes for a comfortable and secure grip, bare-handed or gloved. You have five models from which to choose. Each comes with automatic shut-off, a large display with display hold, soft carry case, TL75 test leads and batteries. Fluke backs these up with a three year warranty. Meters weigh 11oz.

	Averaging Sensing		True RMS Sensing		
	333	334	335	336	337
Amps AC @ $\pm 2\%$	0.0-400.0A		0.0-600.0A		0.0-999.9A
Amps DC @ $\pm 2\%$	na	na	na	0-600.0A	0-999.9A
Volts AC & DC			0.0-600.0V @ $\pm 1\%$		
Resistance @ $\pm 1.5\%$	0-600.0 Ω		0-6000 Ω		
Frequency	na	na	na	na	5-400Hz $\pm 0.2\%$
Backlight	na	X	X	X	X
Inrush current	na	X	X	X	X

Part No.	Description	Price
417-683	333 Clamp Meter AC	\$129.99
417-684	334 Clamp Meter AC back light	\$149.95
417-685	335 Clamp Meter AC back light true RMS	\$194.95
417-686	336 Clamp Meter AC/DC back light true RMS	\$279.00
417-687	337 Clamp Meter AC/DC back light true RMS 1000Amps w/freq	\$307.95
24 317-433-C	333 w/Calibration Certificate	\$155.00
24 317-434-C	334 w/Calibration Certificate	\$185.00
24 317-435-C	335 w/Calibration Certificate	\$225.00
24 317-436-C	336 w/Calibration Certificate	\$325.00
24 317-437-C	337 w/Calibration Certificate	\$355.00
317-438	H3 Belt Holster for 330 Clamps & Accessories	\$19.95

Calibrated Meters with this symbol
ship within 24 hours.

24



For an expanded selection of
test & measurement products visit
contacteast.com or jensentools.com



317-912



406-703

10 Series Digital Multimeters

Perfect for First-Line Electrical Testing

Economical first-line electrical and electronics testing. With push button and slide switch controls they are easy to operate, even one-handed. 4000 count large-digit displays make reading measurements easy, even in low-light conditions.

Model 12 measures capacitance, great for testing starting capacitors on industrial motors. Fast continuity check and a continuity hold feature for capturing very fast continuity changes. It also includes V-Chek, a safety feature which automatically switches the meter into voltage measurement if more than 4.5V during resistance measurements. It also has min/max record with relative time stamping.

Model 16 is three meters in one, designed to be the perfect tool for HVAC technicians. It is a full function multimeter, measuring AC and DC voltage, resistance, capacitance, diode test and super fast continuity beeper. It is a thermometer. And it is a flame rod circuit tester with current testing accurately down to 0.1 μ A. The Model 16 utilizes a selection knob rather than slide switch, has a millivolt range for compatibility with Fluke accessories. Protected by rubber holster.

Each model comes complete with test leads (and thermocouple plus adapter for Model 16), multi-language manual, battery and a two year warranty. Measures 1.4 x 2.8 x 5.6" and weighs 10oz.

Part No.	Description	Price
317-912	12 Digital Multimeter	\$119.00
406-703	16 Digital Multimeter	\$139.00
24 123-417	12 w/Calibration Certificate	\$153.00
24 317-307-C	16 w/Calibration Certificate	\$165.00



417-142



417-146

The 110 Series Digital Multimeters

CAT III Rated for 600 Volts

- Three year warranty
- True RMS
- Rugged design

Designed small, the Fluke 110 series does not compromise on features. The 6000 count display is large, making reading easy. It includes a 33 segment analog bargraph which updates ten times faster than the digits, making peaking and nulling easier. The Model 112 includes a bright back light for reading in the dark. The rugged rubber holster includes test lead holders and can protect the meter from a drop onto concrete up to one meter. The holster also has a handy tilt stand, and can accept the optional ToolPak meter hanging system.

True-rms AC voltage and current measurement make for accurate readings on any waveform. This is perfect for motor control, switching power supplies, and other non-sinusoidal readings. The 110s can lock in maximum, minimum and average readings on any setting, beeping when a new measurement is read. There is a display hold function, press the button and the current reading is frozen on the display. They can measure frequency and capacitance. Plus they give you an easy-open battery access door. They're all CAT III rated for 600V and are protected by a three-year warranty. Measurements: 6.3 x 3.8 x 1.8" at 12oz. Models include monolithic leads, battery and manual.



417-144

Specifications			
	110	111	112
DC Voltage		0mV ~ 600.0V $\pm 0.7\%$	
AC Voltage		0mV ~ 600.0V $\pm 1.0\%$	
DC Current	n/a	0mA ~ 10.00A $\pm 1.0\%$	
AC Current		0.00A ~ 10.00A $\pm 1.5\%$	
Resistance		0.0 Ω ~ 40.00M Ω $\pm 0.9\%$	
Capacitance		0nF ~ 10000 μ F $\pm 1.9\%$	
Frequency		0.00Hz ~ 50.00kHz $\pm 0.1\%$	

Part No.	Description	Price
417-142	Model 110	\$109.00
417-144	Model 111	\$139.00
417-146	Model 112	\$149.00
24 317-340-C	Model 110 with Certificate of Calibration	\$135.00
24 317-341-C	Model 111 with Certificate of Calibration	\$165.00
24 317-342-C	Model 112 with Certificate of Calibration	\$185.00

Calibrated Meters with this symbol ship within 24 hours.

24



320 Series Clamp Meters

Compact size fits tool belt or pocket. 40A range for precise low current measurements. Display hold captures readings for convenient viewing. TL75 test leads included. Two year warranty. Soft carry case included.

320 Series Specifications		
Model	321	322
DC Voltage	No	0-400.0V
AC Voltage	0-400.0V	0-400.0V
AC Current	0-400.0A	0.00-400.0A
Resistance	0-400.0 Ω	0-400.0 Ω

Part No.	Description	Price
417-756	Model 322 400A AC Clamp Meter	\$99.95
417-754	Model 321 400A AC Clamp Meter	\$91.95
24 417-757	Model 322 with Certificate of Calibration	\$139.95
24 417-755	Model 321 with Certificate of Calibration	\$131.95



Model 73

Built tough, with rubber holster with flex stand to protect against impacts and 4kV transient protection with Cat II 600V on the inputs. Large LCD displays with 3200 counts and analog bar graphs. Autorange and TouchHold make taking and viewing readings easy. Continuity beeper and diode test are standard.

Model 73 Specifications	
Volts DC	000.0mV ~ 600V $\pm 0.3\%$
Volts AC	000mV ~ 600V $\pm 2.0\%$
Amps DC	00.00mA ~ 10A $\pm 1.5\%$
Amps AC	00.00mA ~ 10A $\pm 2.5\%$
Resistance	0.0 Ω ~ 32M Ω $\pm 0.5\%$



Part No.	Description	Price
407-179	Fluke 73-III DMM	\$159.00
24 317-573-C	Fluke 73-III DMM w/Calibration Certificate	\$185.00



New



JENSEN®

True RMS Digital Multimeters

Full Functionality and Accuracy at a Value Price

- 4000 counts on large backlit LCD with full function indication
- Accurate measurements of AC and DC voltage and current
- True RMS means accurate values for distorted or noisy waveforms
- Measures capacitance, frequency, resistance, temperature, duty-cycle, continuity and diode-test
- Autoranging with manual range override
- Auto power off saves battery
- Data hold and range hold
- Overload protection and indication
- 10A fuse protection

Wide range temperature measurements are available for industrial, automotive and food processing requirements.



JTM-69A



JTM-97A

JTM-69A True RMS Multimeter

Economical Multimeter Offers Great Accuracy

- Temperature to 1400°F

Economical true RMS multimeter for the electrician, HVAC service person, and other professionals who require accurate measurements in a rugged package. Ships complete with protective rubber holster, test leads and Type K thermocouple probe, users manual and 9V battery installed. One year warranty.

Part No.	Model	Description	Price
JTM-69A	JTM-69A	True RMS Multimeter	\$69.00

Specification	Ranges	Basic Accuracy
DC Voltage	400mV, 4V, 40V, 400V, 600V	± 1.0%
AC Voltage	400mV, 4V, 40V, 400V, 600V	± 1.2%
DC Current	400µA, 4000µA, 40mA, 400mA, 10A	± 1.5%
AC Current	400µA, 4000µA, 40mA, 400mA, 10A	± 1.8%
Resistance (Ω)	400, 4K, 40K, 400K, 4M, 40M	± 1.2%
Capacitance	4nF, 40nF, 400nF, 4µF, 40µF, 200µF	± 3.0%
Frequency	10Hz to 10MHz	± 1.2%
Temperature	-4°F to 1400°F (-20°C to 760°C)	± 3.0% + 3°
Duty Cycle	0.1% to 99.9%	± 1.2%
Continuity	Below 30Ω approx.	
Diode Test	Test current 0.3mA; open circuit voltage 1.5V	
Power	One 9V battery (included)	
Dimensions	6" x 3" x 1.75"	

JTM-97A True RMS Multimeter

Economical Multimeter Offers Exceptional Accuracy

- Temperature to 2370°F

High accuracy true RMS multimeter for electronics, electrician, and other professionals who require accurate measurements in a rugged package. Access to battery and fuses without breaking calibration. Ships complete with protective rubber holster, test leads, Type K thermocouple probe, users manual and 9V battery installed. One year warranty.

Part No.	Model	Description	Price
JTM-97A	JTM-97A	True RMS Multimeter	\$159.00

Specification	Ranges	Basic Accuracy
DC Voltage	400mV, 4V, 40V, 400V, 1000V	± 0.5%
AC Voltage	400mV, 4V, 40V, 400V, 1000V	± 0.8%
DC Current	400µA, 4000µA, 40mA, 400mA, 4A, 10A	± 1.0%
AC Current	400µA, 4000µA, 40mA, 400mA, 4A, 10A	± 1.0%
Resistance (Ω)	400, 4K, 40K, 400K, 4M, 40M	± 0.5%
Capacitance	40nF, 400nF, 4µF, 40µF, 100µF	± 2.5%
Frequency	5Hz to 10MHz	± 0.05%
Temperature	-40°F to 2370°F (-40°C to 1300°C)	± 1.0% + 3°
Duty Cycle	0.1% to 99.9%	± 0.1%
Continuity	Below 10Ω approx.	
Diode Test	Test current 0.3mA; open circuit voltage 1.5V	
Power	One 9V battery (included)	
Dimensions	6.8" x 3.6" x 1.6"	



JTM-105A True RMS Multimeter

Superior Accuracy at a Reasonable Price

- 5000 counts on large backlit LCD with full function indication
- Fast bar graph in addition to digits
- Accurate measurements of AC and DC voltage and current
- True RMS means accurate values for distorted or noisy waveforms
- Measures capacitance, frequency, resistance, temperature, duty-cycle, continuity and diode-test
- Temperature to 2370°F
- Fast autoranging with manual range override
- Auto power off saves battery
- Data hold and range hold
- Overload protection and indication
- 10A fuse protection
- RS-232 optical interface

Our highest accuracy true RMS multimeter for electronics, electrician, and other professionals who require accurate measurements in a rugged package. Wide range temperature measurements are available for industrial, automotive and food processing requirements. Access to battery and fuses without breaking calibration. Ships complete with protective rubber holster, test leads, Type K thermocouple probe, users manual and 9V battery installed. Three year warranty.

Part No.	Model	Description	Price
JTM-105A	JTM-105A	True RMS Multimeter	\$229.00

Specification	Ranges	Basic Accuracy
DC Voltage	50mV, 500mV, 5V, 50V, 500V, 1000V	± 0.1%
AC Voltage	500mV, 5V, 50V, 500V, 1000V	± 0.8%
DC Current	500µA, 5mA, 50mA, 500mA, 5A, 10A	± 0.5%
AC Current	500µA, 5mA, 50mA, 500mA, 5A, 10A	± .8%
Resistance (Ω)	50, 500, 5K, 50K, 500K, 5M, 50M	± 0.5%
Capacitance	5nF, 50nF, 500nF, 5µF, 50µF, 500µF, 5000µF	± 2.0%
Frequency	5Hz to 5MHz	± 0.01%
Temperature	-58°F to 2370°F (-50°C to 1300°C)	± 1.0% + 3°
Duty Cycle	0.1% to 99.9%	±0.1%
Continuity	Below 10Ω approx.	
Diode Test	Test current 1mA; open circuit voltage	
Power	One 9V battery (included)	
Dimensions	8.2" x 4.0" x 2.1"	



For replacement batteries, see page 437

JTM-30 Series Clamp Meters

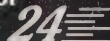
The **JTM-30** is a miniature AC/DC current clamp meter which accepts up to 22mm conductors.

The **JTM-39** is the top-of-the-line AC/DC true RMS meter with frequency measurement via the clamp. It can accept 51mm conductors or 24 x 60mm bus bars. It is also drop tested at four feet. Each meter comes with test leads, manual, soft case and batteries. Three year warranty.

Part No.	Description	Price
JTM-30	Mini AC/DC Clamp Meter	\$149.00
JTM-39	AC/DC True RMS Clamp Meter	\$209.00
24≡ JTM-30-C	Mini AC/DC Clamp Meter w/Calibration Certificate	\$185.00
24≡ JTM-39-C	AC/DC True RMS Clamp Meter w/Calibration Certificate	\$235.00

	JTM-30	JTM-39
DC Voltage:	400mV-600V	400V, 600V
AC Voltage:	400mV-600V	400V, 600V
AC Current:	40A, 300A	400A, 1000A
DC Current:	40A, 300A	400A, 1000A
Resistance:	400Ω-40MΩ	
Frequency:		40Hz-400Hz
Batteries:	two AAA	one 9V

Calibrated Meters with this symbol ship within 24 hours.





EXTECH
INSTRUMENTS

New

400 Series DMMs

Advantages of Non-Contact InfraRed Temperature with Laser

- Models EX450 and EX470 include built-in non-contact IR thermometer with laser
- Low current capability - measure down to 0.1 μ A
- Audible and visible input alerts
- Rugged and drop-proof to 6 feet

The rugged Extech 400 Series was developed as a complete family of manual and autoranging multimeters with a unique combination of useful functions. A new design and manufacturing technique allows this series to be offered at extremely affordable prices.

Two models (the 450 and the 470) include InfraRed temperature measurements — an important innovation in light of the increasing demand for non-contact temperature measurements for diagnosis and troubleshooting. All of the Extech 400 models provide very high resolution backlit displays and are CAT III-600V rated. Low voltage and current inputs allow measurements to 2000A using optional current adaptors.

True RMS is important for accurate voltage and current measurements on waveforms with non-linear distortion. For example, loads which have solid state controls such as those commonly used for motor drives or heating systems can distort the waveform. Average responding meters can read up to 40% less than a True RMS responding meter.

Applications include service, installation and maintenance personnel, production test departments, educational facilities, engineers and consultants, automotive service and HVAC.

**InfraRed
Thermometer
is Built-in**



**Rugged Multimeters
with built-in
Non-contact InfraRed
Thermometer and
True RMS Functions**

Troubleshoot

Quickly locate hot spots

Distance

6:1 target ratio allows for measurements in areas that are normally difficult or unsafe to reach

Speed

Point and shoot with final result in seconds

Convenience

No cables or probes to connect, break or lose.

Part No.	Model	Description	Price
420-425	EX410	Manual Range DMM	\$39.00
420-427	EX411	True RMS Manual Range DMM	\$59.00
420-429	EX430	True RMS Auto Range, Capacitance & Frequency DMM	\$79.00
420-430	EX430-NIST (with Cert. of Cal.)	True RMS Auto Range, Capacitance & Frequency DMM	\$144.00
420-431	EX450	DMM with built-in IR Thermometer	\$99.00
420-432	EX450-NIST (with Cert. of Cal.)	DMM with built-in IR Thermometer	\$224.00
420-433	EX470	True RMS Autorange DMM with capacitance, frequency and built-in IR Thermometer	\$129.00
420-434	EX470-NIST (with Cert. of Cal.)	True RMS Autorange DMM with capacitance, frequency and built-in IR Thermometer	\$234.00

Model No.	EX410	EX411	EX430	EX450	EX470
	Manual Ranging		Autoranging		
Description	DMM	True RMS DMM	True RMS DMM	DMM Plus IR Thermometer	True RMS DMM Plus IR Thermometer
DC Voltage	0.1mV to 600V (4 ranges)	0.1mV to 600V (4 ranges)	0.1mV to 600V	0.1mV to 600V	0.1mV to 600V
AC Voltage	1mV to 600V (3 ranges)	1mV to 600V (3 ranges)	0.1mV to 600V	0.1mV to 600V	0.1mV to 600V
DC Current	0.1 μ A to 20A (3 ranges)	0.1 μ A to 20A (3 ranges)	0.1 μ A to 20A	0.1 μ A to 20A	0.1 μ A to 20A
AC Current	0.1mA to 20A (2 ranges)	0.1mA to 20A (2 ranges)	0.1 μ A to 20A	0.1 μ A to 20A	0.1 μ A to 20A
Resistance	0.1 Ω to 20M Ω (5 ranges)	0.1 Ω to 20M Ω (5 ranges)	0.1 Ω to 40M Ω	0.1 Ω to 20M Ω	0.1 Ω to 40M Ω
Capacitance	—	—	0.1nF to 100 μ F	—	0.1nF to 100 μ F
Temperature (Type K)	0 to 1400°F (760°C)	0 to 1400°F (760°C)	0 to 1400°F (760°C)	—	0°F to 1400°F (760°C)
Temperature (IR with laser)	—	—	—	0 to 518°F (270°C)	0°F to 518°F (270°C)
CAT Rating	CAT III-600V	CAT III-600V	CAT III-600V	CAT III-600V	CAT III-600V
Warranty	One Year	One Year	Three Year	Three Year	Three Year



Component Tester

- Inductance, capacitance and resistance meter
- Transistor, continuity, diode/microwave diode test
- Data hold and max hold

This 3-1/2 digit LCR meter measures capacitance, resistance and inductance with a basic accuracy of 0.5% (C), 0.5% (R) and 5% (L). It includes the following ranges: 200pF, 2nF, 20nF, 200nF, 2μF, 20μF, 200μF, 2000μF, 20Ω, 200Ω, 2KΩ, 20KΩ, 200KΩ, 2MΩ, 20MΩ, 200μH, 2mH, 20mH, 200mH, 2H, 20H, 200H. It also features a transistor tester (Hfe and I_{ceo}), diode test and an continuity beeper. In the 20V range, a zero adjust knob allows you to compensate for the test lead resistance. Unit operates on 9V battery (included), measures 7.2" x 3.1" x 1.5" and weighs 11 oz. Comes complete with manual, test leads, holster and 1-year warranty.

Part No.	Model	Description	Price
411-243	LCR55	Component Tester	\$179.55



30XR Multimeter

- Non-contact voltage detector

Nine function, 30 range basic electronics multimeter. Includes a unique voltage detector which requires only proximity to a live source to indicate dangerous AC voltages. Provides a battery test without loading circuitry. Meter comes complete with Magne-Grip holster, test leads, manual, spare fuse and 9V battery.

Part No.	Model	Description	Price
419-786	30XR	DMM with voltage detector	\$59.95
180-242	VC221A	Soft Carrying Case	\$15.95



30XR Specifications		
	Range	Accuracy
DC Voltage	0-600V	±1.0%
AC Voltage	0-600V	±1.5%
DC Amps	0-10.00A	±1.5%
AC Amps	0-10.00A	±2.0% (45-500Hz)
Resistance	0-20.00MΩ	±1.0%
Battery test	1.5V & 9V	±3.5%
Voltage detector	70VAC-600VAC	N/A

Precision True RMS Meter

- Autoranging, true RMS
- Cat III 1000V
- 10,000 count LCD
- Bright blue backlight

Designed for electronics and electrical trades where accuracy and repeatability are critical, the 37XR digital multimeter provides the required features. Min/Max reading storage, averaging, relative change, and data hold. It also features a high speed analog bar graph. Includes the new MagneGrip holster with magnetic hanging strap, test leads, manual and a spare fuse. 9V battery included.

Part No.	Model	Description	Price
419-789	37XR	True RMS DMM	\$129.95
180-242	VC221A	Soft Carrying Case	\$15.95

37XR Specifications		
	Range	Accuracy
DC Volts	0-1000V	±0.1%
AC Volts	0-750V	±0.75%
DC Amps	0-10.000A	±0.5%
AC Amps	0-10.000A	±1.5%
Resistance	0-40MΩ	±0.5%
Capacitance	0-400μF	±3.0%
Inductance	0-40H	±5%
Frequency	0-40MHz	±0.1%
dBm	-50.00-50.00dBm	±0.5dB



Capacitance + Resistance Meter

- 0.5% basic accuracy
- 0.1pF and 0.01Ω resolution
- Built-in diode test and continuity beeper

Measures capacitance in nine ranges (200pF, 2nF, 20nF, 200nF, 2μF, 20μF, 200μF, 2mF, 20mF) with a basic accuracy of 0.5% and a resolution down to 0.1pF. To assure optimum accuracy, an external zero pot zeros out stray capacitance from the test leads in the 200pF range. For measuring resistance there are seven ranges (20Ω, 200Ω, 2KΩ, 20KΩ, 200KΩ, 2MΩ, 20MΩ) with a basic accuracy of 0.5% and a resolution down to 0.01Ω. The "low ohms" 20Ω range also features its own "zero" pot to adjust out lead resistance. The meter also includes a diode test and continuity beeper. Operates on 9V battery (included), measures 6.1" x 2.8" x 1.3" and weighs 6 oz. Comes complete with manual, test leads with screw-on alligator clips, holster and a 1-year warranty.

Part No.	Model	Description	Price
402-045	CR50	Capacitance + Resistance Meter	\$79.95





Industrial DMM with PC Interface

- AC+DC for accurate ripple measurements
- 4-20mA loop current test
- Bright blue backlight

For Engineers designing and troubleshooting industrial automation and control systems, the 38XR delivers the highest safety rating available CAT IV 600 V and CAT III 1000 V. The features include temperature, capacitance, frequency, 4-20mA loop current percentage, backlight and PC interface. With the addition of 38SW software and RS232 cable, the 38XR can be used for real-time data acquisition using any industry standard Windows® PC. The meter comes complete with test leads, K-type thermocouple, manual, spare fuse and battery.



Part No.	Model	Description	Price
419-790	38XR	DMM with RS232 Interface	\$149.95
419-791	38-SW	Software and Cable Kit	\$19.95
180-242	VC221A	Soft Carrying Case	\$15.95

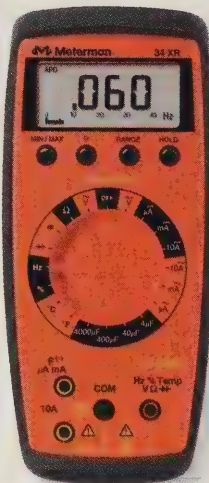
38XR Specifications

	Range	Accuracy
DC Volts	0000.0mV~1000V	±0.25%
AC Volts	0000mV~750V	± 0.75%
DC Amps	0000.0µA~10.000A	±0.5%
AC Amps	0000.0µA~10.000A	±1.5%
Resistance	0000.0Ω~100MΩ	±0.5%
Capacitance	00.00nF~400µF	±3.0%
4-20mA	0~100%	±0.5%
Frequency	0000.0Hz~40MHz	±0.1%
dBm	-50.00~+50.00dBm	±0.5dB

Autoranging 3-3/4 Digit DMMs

- Magne-Grip magnetic hanging strap
- Advanced features

Models 33XR and 34XR are designed for professionals who maintain, install and repair a wide variety of electrical and electro-mechanical equipment. These models feature measurements for temperature, frequency and capacitance. They have data hold for capturing readings in hard to probe areas, Min/Max storage and a fast updating analog bargraph for viewing fast reading changes. The 34XR adds True RMS for completely accurate AC readings, autoranging for ease of use and a bright blue back light for dim work areas. Meters are shipped with test leads with alligator clips, K type thermocouple, manual, spare fuse and 9V battery. One year warranty on 33XR, three year on 34XR.



Part No.	Model	Description	Price
419-787	33XR	3-3/4 digit DMM with Thermometer	\$89.95
419-788	34XR	3-3/4 digit True RMS DMM	\$109.95
180-242	VC221A	Soft Carrying Case	\$15.95

38XR Specifications

	Range	Accuracy
DC Volts	0000.0mV~1000V	±0.25%
AC Volts	0000mV~750V	± 0.75%
DC Amps	0000.0µA~10.000A	±0.5%
AC Amps	0000.0µA~10.000A	±1.5%
Resistance	0000.0Ω~100MΩ	±0.5%
Capacitance	00.00nF~400µF	±3.0%
4-20mA	0~100%	±0.5%
Frequency	0000.0Hz~40MHz	±0.1%
dBm	-50.00~+50.00dBm	±0.5dB

New

XP Series Compact DMMs

Meters Provide Superior Accuracy & Come Triple Safety Rated

- From 0.5% basic accuracy
- One year manufacturer's warranty
- Continuity beeper & diode test

XP meters include select features that make your testing safer, easier and more efficient whether it be in field service, electronic repair, electrical or HVAC applications. The XP series are compact CAT III multimeters with unique extras such as Voltect™ and Magne-Grip™ holster, a non-contact voltage detector which allows the quick detection of dangerous AC voltages without probing. Each meter ships complete with battery, test probes, Magne-Grip holster, manual, and temperature probe (35XP only).



Part No.	Model	Description	Price
423-691	5XP	DMM, 1% Accuracy	\$39.95
423-692	15XP	DMM, 0.5% Accuracy	\$59.95
423-693	35XP	DMM, 0.5% Accuracy	\$79.95

XP Series Specifications

	5XP	15XP	35XP
Basic Accuracy	1%	0.5%	0.5%
DC Voltage	200mV 2V 20V 200V 1000V	200mV 2V 20V 200V 1000V	400mV 4V 40V 400V 1000V
AC Voltage	200mV 2V 20V 200V 750V	200mV 2V 20V 200V 750V	400mV 4V 40V 400V 750V
DC Current	200µA 2mA 20mA 200mA	200µA 2mA 20mA 200mA 2A	400µA 4000µA 40mA 400mA 2A
AC Current	200µA 2mA 20mA 200mA	200µA 2mA 20mA 200mA 2A	400µA 4000µA 40mA 400mA 2A
Resistance	200Ω to 20MΩ		400Ω to 40MΩ
Capacitance	No	No	4nF 40nF 400nF 4µF 40µF 4000µF
Frequency	No	No	4kHz 40kHz 400kHz 4MHz 40MHz
Display Count	2000	2000	4000
Temperature	No	No	-20° C to 1000°C (-4°F to 1832°F)
Temperature Probe	No	No	Yes
Voltect™	Yes	Yes	Yes
Battery Test	1.5V 9V	No	No
Logic Test	No	TTL to 20MHz	No
Features	Min/Max Data Hold	Range Lock Data Hold	



For an expanded selection of test & measurement products visit contacteast.com or jensentools.com

YOKOGAWA



Compact Clamp-on Tester

This clamp meter is designed to fit into tight spaces and provide high accuracy and high resolution. Operates on one CR2032 battery (included) and comes complete with manual, soft case and 1-year warranty.

Part No.	Model	Description	Price
423-618	CL220	AC/DC Clamp Meter	\$220.00



Current and Voltage Probe

Simply rest the probe against an insulated conductor, select current or voltage and the probe will display the level on its LED bargraph. A unique probe, which will indicate not only the presence of voltage, but also the level without making contact with any bare conductors. Equally handy is the ability to determine the current flow through even three wire Romex without the need to separate conductors. A must for electrical work and safety checks.

Part No.	Description	Price
483-001	Non-Contact Volt -Amp Probe	\$48.50



EXTECH
INSTRUMENTS

New

1000A Clamp IR Meters

Clamp-On Multimeter with Built-In Noncontact IR Thermometer

- Non-contact IR temperature measurements with laser pointer
- Models EX820/830 offer True RMS current & voltage measurements
- 1ms peak hold captures inrush currents & transients
- 1.7" jaw opening for conductors up to 750MCM or 2 500MCM
- 4000 count backlit dual display
- Autoranging with manual range button
- Multimeter functions include: AC/DC voltage, resistance, capacitance, frequency, diode & continuity

Comes complete with test leads, 9V battery, type K probe (EX820/830) and carrying case.

Part No.	Model	Description	Price
425-386	EX810	Clamp-On IR Meter w/AC Current	\$119.00
424-368	EX820	Clamp-On IR Meter w/True RMS	\$149.00
424-369	EX830	Clamp-On IR Meter w/AC/DC & True RMS	\$179.00



1000A Clamp IR Meter Specifications

	EX810	EX820	EX830
IR Temperature	-58 to 518°F	-58 to 518°F	-58 to 518°F
AC Current	0.1 to 1000A	0.1 to 1000A	0.1 to 1000A
DC Current	—	—	0.1 to 1000A
AC Voltage	0.1mV to 600V	0.1mV to 600V	0.1mV to 600V
DC Voltage	0.1mV to 600V	0.1mV to 600V	0.1mV to 600V



Clamp-On Ground Resistance Tester

- 1200Ω Range

Measures ground rod and small grid resistance without auxiliary ground rods. Clamp around the ground conductor and measure the resistance to ground. Fits rods up to 1000 MCM typical in telecommunications. Includes carry case and calibration loop.

Part No.	Model	Description	Price
464-002	3711	Ground Resistance Tester	\$1,995.04



EXTECH
INSTRUMENTS

True RMS 400A AC/DC Mini Clamp Meter

- 4,000 count display with analog bar graph
- Frequency measurement

Transformer jaws accept conductors up to 0.9" diameter and measure True RMS AC/DC current to 400A and frequency to 1000KHz. It features min/max, data hold and a one touch zero for DC amps. Unit operates on 2 "AA" batteries (included), measures 7" x 1.75" x 1.25" and weighs 8 oz. Comes complete with manual, carrying case and 1 year warranty.

Part No.	Model	Description	Price
402-669	380947	400A True RMS AC/DC Mini Clamp Meter	\$249.00



Model 380947 Specifications

DC Current	40A 400A, 1.0% accuracy
True RMS AC Current	4A 40A 100A 400A 1.5% accuracy
Frequency	1000KHz
Resolution down to:	10mA (DC) 1mA (AC) 0.01-100Hz

For replacement batteries,
see page 437



These probes...

...fit these leads



Interchangeable Leads & Probes for Fluke Meters

Part No.	Model	Description	Price
420-330	TL224	90° to Straight Plugs, red and black	\$18.00
420-331	TL222	90° 90° Plugs, red and black	\$18.00
420-332	AC283	Grabbers, 2 ea.	\$23.00
420-333	AC220	Alligator Clips, 2 ea.	\$23.00
420-334	AC280	Spring Hooks, 2 ea.	\$20.00
123-194	AC89	Insulation Penetrators, 1 ea.	\$23.00
420-335	AC285	Insulated Large Alligators, 2 ea.	\$13.00
420-336	TP220	Sharp Probes, 2 ea.	\$10.00
317-534	TP80	Probes, Very Fine Point, 2 ea.	\$20.00
420-337	TL220	Industrial Lead Kit w/TL22, AC20, TP20	\$45.00
317-750	TL75	Lead Set, DMM Replacement Leads	\$13.00
420-338	AC72	Alligator Clips	\$9.00

Current Clamp Selection Guide

317-310
80i-400
AC



80i-400 AC	
Type	1000:1 transformer
Diameter	1.18" (30mm)
AC Range	400A
AC Accuracy	±(3% of reading + .4A)
Working Voltage	600V
Warranty	1 Year

403-696
i1010
AC/DC



i1010 AC/DC	
Type	1000:1 Hall Effect
Diameter	1.18" (30mm)
AC Range	600A
AC Accuracy	±2%
DC Range	1000A
DC Accuracy	±2%
Zero adjust	✓
Working Voltage	600V
Warranty	1 Year

317-600
80i-600A
AC



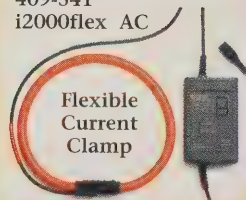
80i-600A AC	
Type	1000:1 transformer
Diameter	1.98" (50mm)
AC Range	600A
AC Accuracy	±2% of reading
Working Voltage	750V
Warranty	1 Year

403-695
i410
AC/DC



i410 AC/DC	
Type	1000:1 Hall Effect
Diameter	1.18" (30mm)
AC Range	400A
AC Accuracy	±3.5%
DC Range	400A
DC Accuracy	±3.5%
Zero adjust	✓
Working Voltage	600V
Warranty	1 Year

409-541
i2000flex AC



i2000Flex AC	
Type	1000:1 transformer
Diameter	9"/62" circumference
AC Range	2000A
AC Accuracy	±1%
Working Voltage	600V
Warranty	none

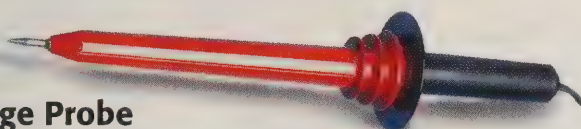
Part No.	Model	Description	Price
317-310	80i-400	400ACA Current Clamp	\$95.00
317-600	80i-600A	600ACA Current Clamp	\$129.00
403-695	i-410	400AC/DC Clamp	\$154.00
403-696	i1010	600ACA/1000ADC Clamp	\$254.00
409-541	i2000FLEX	AC Clamp 2000A	\$255.00



TL80A Basic Electronics Test Lead Set

The TL80 kit consists of two each (one black and one red): One meter long test lead with a safety shrouded, right angle banana connector on one end and a stainless steel test probe on the other end, rated up to 10A. Silicone—insulated leads have superior flexibility in cold temperatures and resistance to high temperatures. Insulated alligator clip rated up to 5A. Insulated probe tip extender rated up to 3A. Zippered, vinyl soft case. Compatible with Fluke and other multimeters that accept safety shrouded, standard diameter banana connectors. CAT III 300V, UL approved. One year warranty.

Part No.	Model	Description	Price
409-542	TL80A	Basic Electronics Test Lead Set	\$40.00



High Voltage Probe

Rated to 40kVDC or peak AC (28kVACRMS). Voltage division of 1000:1 for DMMs with 10MΩ input impedance. Not intended for high energy utility or three-phase applications.

Part No.	Model	Description	Price
122-953	80K-40	High Voltage Probe	\$129.00
317-840-C	80K-40	High Voltage Probe w/Calibration Certificate	\$189.00



80TK-Temp Adapter

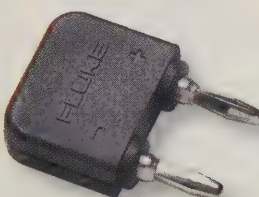
80PK-1 Probe

Part No.	Model	Description	Price
122-965	80TK	K Type Temp Adapter	\$74.00
317-180-C	80TK	w/Calibration Certificate	\$116.00

New

80AK DMM Adapter

- Adapts Type-K thermocouple mini-connector to dual banana plug inputs
- Allows the Fluke 16, 179, 187, 189, 87-IV, 89-IV multimeters to be used w/K-type thermocouple accessory
- Measurement range and accuracy is not affected by the 80AK adapter



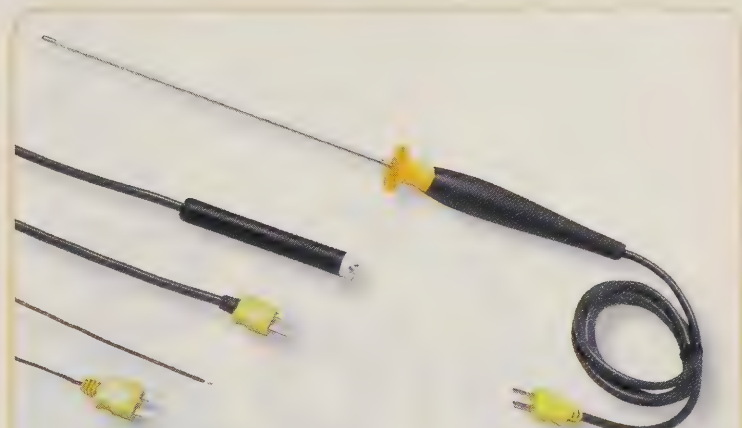
Part No.	Model	Description	Price
191-964	80AK	Temperature Adapter Module	\$15.00



Deluxe Electronic Test Lead Set

The TL81 deluxe electronic lead set extends the capability of your DMMs and other test equipment. The probes have three-foot-long silicone leads for maximum flex and reach and have 90 degree shrouded banana plugs. Also included are two insulated alligator clips, two probe tip extenders, two meter long leads which accept the following; test probes, hook clips, pincher clips, IC probe tip adapters. Set is housed in a soft case.

Part No.	Model	Description	Price
409-543	TL81A	Deluxe Electronics Lead Set	\$99.00



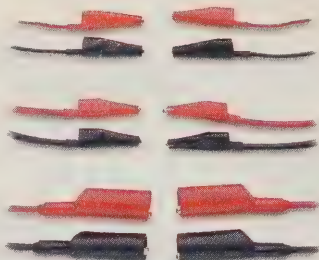
Optional K-Thermocouple Probes

Part No.	Model	Description	Temp. Range	Price
317-058	80PK-1	80PK-1 Bead Probe	-40 to 500°F	\$15.00
423-664	80PK-22	80PK-22 K-Type Immersion Probe	-40 to 1994°F	\$54.00
317-183	80PK-3A	80PK-3A Surface Probe	-320 to 500°F	\$89.00
423-665	80PK-24	80PK-24 Air Probe	-40 to 1550°F	\$70.00
423-666	80PK-25	80PK-25 Piercing Temp. Probe	-40 to 1550°F	\$65.00
423-668	80PK-26	Tapered temperature probe	-40 to 1500°F	\$70.00
423-669	80PK-27	Industrial Surface Probe	-196 to 1112°F	\$199.00



10-Piece Alligator Test Lead Kits

Five red/black pairs. PVC insulated wire and boots each end. **Light-Duty Test Lead** is 20 AWG, 1.2" nickel plated clip. **Regular Test Lead** is 18 AWG, same clip. **Heavy-Duty Test Lead** uses 18 AWG and 2" clip.

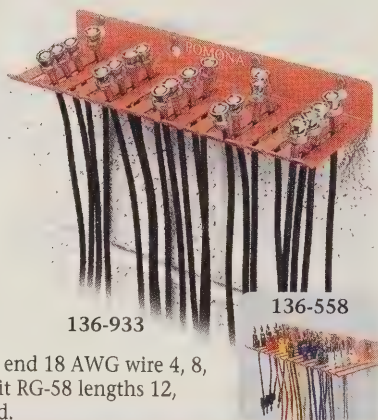


Part No.	Description	Price
136-553	Light-Duty 12" Lead Kit, 10pc.	\$31.38
136-551	Light-Duty 24" Lead Kit, 10pc.	\$32.15
136-554	Regular 12" Lead Kit, 10 pc.	\$35.22
136-555	Regular 24" Lead Kit, 10 pc.	\$35.22
136-558	Heavy-Duty 24" Lead Kit, 10pc.	\$41.09
136-559	Heavy-Duty 36" Lead Kit, 10pc.	\$38.74

Rack-O-Bananas/ Rack-O-BNCs

- Complete ready to hang banana kits: 7 lengths, 4 leads each, 7 colors or red/black pairs.
- 21-piece BNC kit: 5 lengths, 4 leads each

Stackable banana connectors each end 18 AWG wire 4, 8, 12, 18, 24, 36 and 48". BNC-to-BNC kit RG-58 lengths 12, 24, 36, 48, and 60". Wall rack included.



Part No.	Description	Price
136-588	Multi-Color Banana Kit	\$102.53
136-589	Red/Black Pairs Kit	\$102.52
136-933	BNC-to-BNC w/Rack	\$139.91
175-569	Test Lead Holder	\$10.15



31-Piece Maxi-Kit

Contains two red/black pairs of 48" test leads. One pair has fixed handle extendible needlepoint probes. The other uses standard sheathed banana jacks and adapts to tip probe handles, alligator clips, large clips, minigrabber leads, minipincer leads, spade lugs and couplers. Interchangeable tips, one pair each of dog-leg, needle, shoulder, and four standard brass tips. Nylon roll pouch.

Part No.	Description	Price
136-677	Pomona Maxi-Kit, 31pc.	\$98.35

SMD Grabber® Minipincer™ Test Clips

Two-part grabber/minipincer jaws slip around both sides of a component leg. No need for backside clearance on component leg. **SMD Grabber** opens .040", extends .060", and is 1.7" overall. **Minipincer** opens .087", extends .110", and is 2.6" overall. Contact jaws are gold plated. Ten different colors in each pack.



Part No.	Description	Price
136-122	SMD Grabber, 6", 10/pk.	\$85.04
136-121	SMD Grabber, 12", 10/pk.	\$79.66
411-534	SMD Grabber, 24", 10/pk.	\$56.94
136-124	Minipincer, 8", 10/pk.	\$86.13
136-125	Minipincer, 12", 10/pk.	\$79.66
136-127	Minipincer, 24", 10/pk.	\$88.33

7-Piece Deluxe Electronic Lead Kit

Contains red and black 48" leads that pair with probe handles, alligator clips, extended probe tips, minigrabber leads, minipincer leads, slide-on IC covers, two spade lugs and nylon roll pouch.

Part No.	Description	Price
411-537	Deluxe Electronic Lead Kit, 16pc.	\$91.00



Test Companion™ Kit For Fluke 80 Series DMMs

Includes shoulder pack style Cordura carrying case plus the following test accessories: modular electronic probe set with replaceable tip, assorted replacement tips, flexible test lead set with right angle and straight banana plugs, SMD Test Tweezer® to banana plugs, Minigrabber® test clip leads, Minipincer® test clip leads, Micrograbber® test clip leads, SMD Grabber® test clip leads, medium alligator clip set, slide-on extended tip set, slide-on IC tip set, and spade lug adapter set.

Part No.	Model	Description	Price
411-491	6175	Test Companion Kit For Fluke 80 Series	\$138.73



Minigrabber® Test Clip to Stacking Banana Plug Patch Cord

Minigrabber test clips feature gold-plated beryllium copper contacts and a durable molded housing. Standard banana plug features a molded body with stacking capability across the axis and into the back of the plug. The beryllium copper spring is heat-treated and hard nickel-plated. Heavy insulated, 20 AWG wire test lead wire is rated for up to 300V.



Part No.	Model	Description	Color	Length	Price
181-601	3782-12-0	Minigrabber® to Banana Plug	Black	12"	\$3.68
400-541	3782-12-2	Minigrabber® to Banana Plug	Red	12"	\$3.68
181-602	3782-24-0	Minigrabber® to Banana Plug	Black	24"	\$3.68
181-603	3782-24-2	Minigrabber® to Banana Plug	Red	24"	\$3.68
243-521	3782-36-0	Minigrabber® to Banana Plug	Black	36"	\$3.68
181-605	3782-36-2	Minigrabber® to Banana Plug	Red	36"	\$3.68

Test Lead Holders

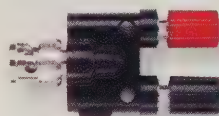
Provides a convenient place to store vital patch cables so they are untangled and available. Mounts quickly on any vertical surface. Three models to choose from for different size cables. All models measure 11"W x 3.5"D x 1"H.



Part No.	Model	Color	Max. Cable Dia.	No. of Slots	Price
175-569	1508	Orange	.210"	14	\$10.15
181-299	4408	Black	.320"	10	\$8.29
181-265	2708	Blue	.450"	9	\$10.15

Double Binding Post to BNC Male Adapter

Converts from BNC female to banana plug or binding post input. Allows the use of banana plugs, bare wires or spade lugs for input to an instrument with a female BNC input jack such as a chart recorder or spectrum analyzer. Binding posts are durable brass with nickel-plating for long life. BNC center contact is gold-plated brass. Rating: 500V.



Part No.	Model	Description	Price
162-378	1296	Double Binding Post to BNC Male Adapter	\$11.60

BNC Female to Double Stacking Banana Plug

Converts from BNC male to double stacking banana plug. Ideal for adapting laboratory oscilloscopes, power supplies and signal generator inputs to readily available coaxial cables. Cross holes (.166 diameter) in body provide side stackup connections. Rating: 500V

Part No.	Model	Description	Price
412-125	1269	BNC Female to Double Stacking Banana Plug	\$6.21

Double Banana Plugs

Standard, double banana plugs can be attached to virtually any wire. They feature beryllium-copper springs with hard nickel plating for long life. Wires are secured with setscrews. Wire hole is .125" diameter. Rating: 500V. Available in black or red.

Part No.	Model	Description	Price
181-712	MDP-0	Double Banana Plug, Black	\$2.33
181-713	MDP-2	Double Banana Plug, Red	\$2.33



BNC Patch Cables

Long life design

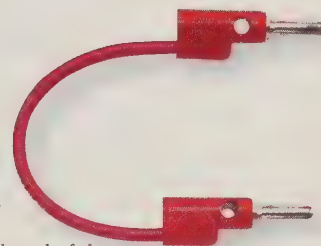
Molded strain relief provides a solid connection between the connector and the cable that resists bending and pulling. Connectors are solid brass with hard nickel plating and gold-plated center contacts. Teflon insulation and precision assembly assure constant impedance and low VSWR. Cable is per MIL-C17 or equivalent. Rating: 500V. Available in four lengths with 50Ω or 75Ω impedance.

Part No.	Model	Description	Price
181-565	2249-C-24	BNC Cable, 50Ω, 24" long	\$12.63
181-566	2249-C-36	BNC Cable, 50Ω, 36" long	\$12.63
181-567	2249-C-48	BNC Cable, 50Ω, 48" long	\$15.78
412-122	2249-C-60	BNC Cable, 50Ω, 60" long	\$15.78
181-572	2249-E-24	BNC Cable, 75Ω, 24" long	\$13.46
181-573	2249-E-36	BNC Cable, 75Ω, 36" long	\$13.46
181-574	2249-E-48	BNC Cable, 75Ω, 48" long	\$15.84
412-562	2249-E-60	BNC Cable, 75Ω, 60" long	\$15.84



Multi-Stacking Banana Plug Patch Cords

Standard banana plug patch cords feature a durable molded body with stacking capability across the axis and into the back end of the plug. The beryllium-copper spring is heat-treated and hard nickel plated for the longest lifetime of any patchcord. Heavily insulated, 18 AWG test lead wire is rated for up to 5000V. Four lengths to choose from. Black or red.



Part No.	Model	Description	Color	Length	Price
162-373	B-12-0	Banana Plug Patch Cord	Black	12"	\$3.99
162-374	B-12-2	Banana Plug Patch Cord	Red	12"	\$3.99
162-380	B-24-0	Banana Plug Patch Cord	Black	24"	\$3.99
162-382	B-24-2	Banana Plug Patch Cord	Red	24"	\$3.99
162-375	B-36-0	Banana Plug Patch Cord	Black	36"	\$3.99
162-376	B-36-2	Banana Plug Patch Cord	Red	36"	\$3.99
181-690	B-48-0	Banana Plug Patch Cord	Black	48"	\$4.40
181-693	B-48-2	Banana Plug Patch Cord	Red	48"	\$4.40

Minigrabber® Test Clip Patch Cord

Minigrabber test clips feature gold-plated beryllium copper contacts and a durable molded housing. Heavy insulated, 20 AWG test lead wire is rated for up to 300V. Available in red or black. Three lengths to choose from.



Part No.	Model	Description	Color	Length	Price
181-590	3781-12-0	Minigrabber Patch Cord	Black	12"	\$3.68
136-229	3781-12-2	Minigrabber Patch Cord	Red	12"	\$3.68
181-595	3781-24-0	Minigrabber Patch Cord	Black	24"	\$3.68
181-596	3781-24-2	Minigrabber Patch Cord	Red	24"	\$3.68
181-597	3781-36-0	Minigrabber Patch Cord	Black	36"	\$3.68
181-598	3781-36-2	Minigrabber Patch Cord	Red	36"	\$3.68

BK PRECISION

Dual Display LCR Meter

Unique Mode Indicates When Components Do Not Conform to Desired Tolerance

- Unique tolerance mode: 1%, 5% or 10%

Measures capacitance from 1000pF to 10mF (0.7% basic accuracy), inductance from 1mH to 10,000H (0.7% basic accuracy) and resistance from 10Ω to 10MΩ (0.5% basic accuracy). It will simultaneously display the measured value on a 10,000 count, 4 digit LCD display and the Q or dissipation factor on a 3 digit, 1000 count LCD display. Unit features two selectable test frequencies (120Hz and 1KHz), auto/manual ranging and relative mode that displays the difference between the measured and reference values. A unique **tolerance mode** beeps to indicate if components are outside a 1%, 5%, or 10% tolerance with reference to a selected value. The meter also remembers minimum and maximum values and keeps a running average of tested component values. Operates on 9V battery (not included) or an AC adapter (included), measures 7.6" x 3.5" x 1.5" and weighs 13.8 ounces. Comes complete with manual, test leads and 1-year warranty.

Part No.	Model	Description	Price
123-012	878A	LCR Meter, Dual Display	\$275.00
473-005	EN22	9V Alkaline Battery	\$2.85

Model 878A Specifications	
Capacitance	1000pF 10nF 100nF 1000nF 10μF 100μF 1000μF 10mF
Resistance	10Ω 100Ω 1KΩ 10KΩ 100KΩ 1MΩ 10MΩ
Inductance	1mH 10mH 100mH 1H 10H 100H 1,000H 10,000H
Resolution down to:	0.1pF 0.001Ω 0.1μH

BK PRECISION

LCR Meter

- Measures dissipation factor (Q) of Capacitors & 1/Q of inductors
- Low battery & overload indicator

This 3-1/2 digit LCR meter measures capacitance, resistance and inductance with a basic accuracy of ±1% (R), ±1% (C), ±1% (L). Meter has following ranges: 200pF, 2nF, 20nF, 200nF, 2μF, 20μF, 200μF, 2000μF, 20mF, 2Ω, 20Ω, 200Ω, 2KΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ, 200μH, 2mH, 20mH, 200mH, 2H, 20H, 200H. Comes complete with 9V battery, test leads with clips, and an instruction manual. Measures 7-1/2" x 3-1/2" x 1-1/2". 3 year warranty.

Part No.	Model	Description	Price
408-718	875B	LCR Meter	\$189.00



Mag-Probe Senses Magnetic Fields

Non-Contact Testing of Solenoids

This safe non-contact probe allows you to troubleshoot AC and DC solenoid-operated devices, relays, or any device using a coil. The probe also detects transient pulses as fast as 10ms, and identifies north and south poles. Easy to use. Place the probe tip close to the coil in the device. If the LED is on, device is energized. If LED is off, device is de-energized. Probe operating frequency is DC-400Hz, and its operating life is 5,000 five-second tests. Measures only 3-1/2" long, and comes complete with instructions and application notes.

Part No.	Description	Price
127-800	Mag-Probe	\$36.90
124-124	Standard Magnetic Field Probe	\$33.25



BK PRECISION

Heavy-Duty 3-1/2 Digit DMM

- 0.5% accuracy
- 20 amp current range
- 5-year warranty
- Water resistant

This 2000 count, 3-1/2 digit DMM measures AC/DC voltage, AC/DC current, resistance, and features a continuity beeper, diode test, 0.8" LCD display and an auto power off circuit that saves batteries. Its ruggedized case is drop resistant to 5 ft. and tightly sealed against water and contaminants. Operates on 9V battery (included), measures 6.8" x 3.3" x 1.25" and weighs 12 oz. Comes complete with instructions, holster, test leads, extra fuse and a 5-year warranty.

Part No.	Model	Description	Price
122-563	2860A	DMM, 0.5% accuracy, 20A range	\$99.00

Model 2860A Specifications	
DC Voltage	200mV 2V 20V 200V 1500V
AC Voltage	200mV 2V 20V 200V 1000V
DC/AC Current	200μA 2mA 20mA 200mA 20A
Resistance	200Ω 2KΩ 20KΩ 200KΩ 2MΩ 20MΩ
Resolution down to:	0.1mV 100nA 0.1Ω

EXTECH INSTRUMENTS

Insulation Tester/Megohmmeter

Safely Tests Wiring Insulation

- 250/500/1000V ranges
- 3% accuracy (5% in 2000MΩ range)
- Low ohms/continuity range
- Measures up to 600 VAC
- Automatic zero adjustment

Safely tests wiring insulation of motor, transformers, instruments and appliances with three test ranges to choose from: 2000MΩ/1000V, 200MΩ/500V, and 200MΩ/250V. Also measures continuity to 200Ω and AC voltage to 600V. Additional features include: data hold, auto power off and overload protection to 2200V (up to 1 min.). "Press To Test" button automatically discharges circuit capacitance and can be locked down to enable hands-free operation for 3 minute test. Operates on six AA batteries (included), measures 6.3" x 3.8" x 2.3", and weighs 13 oz. Comes complete with instructions, heavy duty 30" test leads, alligator clip large probe, and a case with neckstrap. 1-year warranty.

Part No.	Model	Description	Price
400-489	380360	Insulation Tester/Megohmmeter	\$199.00

BK PRECISION

3-1/2 Digit Hand-Held Parts Tester

- For capacitance, resistance, SCRs, transistors, diodes, LEDs & batteries

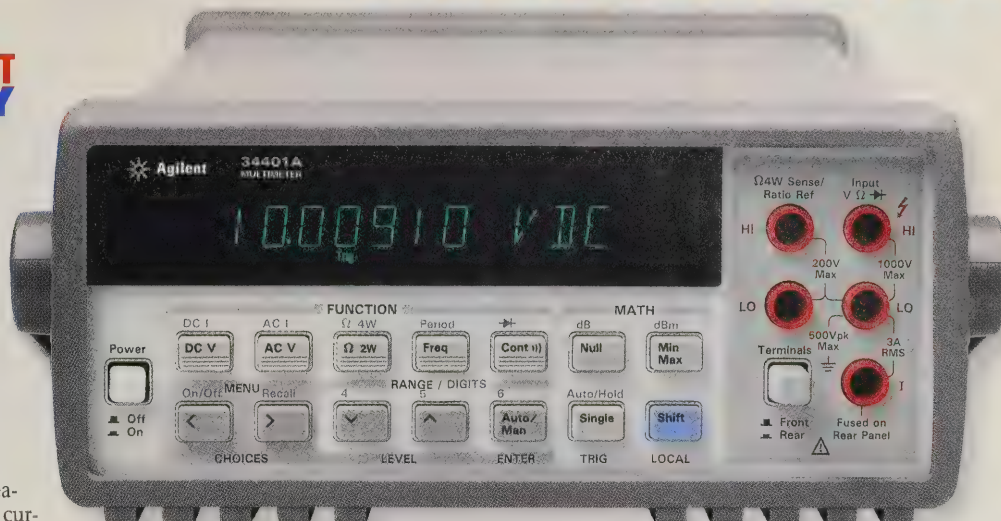
This 2000 count, 3-1/2 digit LCD display meter tests resistance, capacitance, transistor hFE, diodes, LEDs, batteries and SCRs with a nominal measuring rate of 2 times/sec. Basic accuracy for resistance and capacitance measurements is 0.5% with resolutions down to 0.1Ω and 0.1pF. Measures 6.8" x 3.3" x 1.25", weighs 12 oz. and is housed in a rugged case that can survive drops up to 5 ft. Operates on one 9V battery (included) and comes complete with manual, test leads, built-in tilt stand and 1-year warranty.

Part No.	Model	Description	Price
128-044	815	3-1/2 Digit Hand-Held Parts Tester	\$99.00

Model 815 Specifications	
Resistance	200Ω 2KΩ 20KΩ 200KΩ 2MΩ 20MΩ
Capacitance	200pF 2nF 20nF 200nF 2μF 20μF 200μF 2000μF 20mF
Transistor hFE Test	0-1000hFE Values
Transistor Leakage I _{ceo} Test	10nA-20μA
SCR Test	Good or Bad Indication
Battery Test	Display is approx. battery voltage 9V battery load, 15mA 1.5V AA, C or D cell load 150mA 1.5V battery cell load, 0.8mA
Diode Test	Display is approx. forward junction voltage
LED Test	Display is approx. forward voltage

Agilent

True RMS 6-1/2 Digit Benchtop DMM



- 12 measurement functions
- Built-in HP-IB and RS-232 interfaces
- Stores 512 readings in internal memory
- 0.0015% basic accuracy
- NIST-traceable certificate of calibration

This 6-1/2 digit, 1,000 readings per second DMM measures True RMS AC voltage and current, DC voltage and current, resistance, frequency and dB. It features continuity beeper, diode test, min/max/averaging, Null mode (offset function to "zero out" the display), and the ability to store up to 512 readings in internal memory. It also has built-in HP-IB and RS-232 ports for connection to your PC. IntuiLink, free PC connectivity software, provides direct access from your PC applications to the instrument. IntuiLink's PC Application toolbar allows you to easily transfer measurement data and images into your familiar PC applications like Microsoft Office Excel and Word, with little or no programming. The ActiveX control feature allows you to control instruments from your PC, providing built-in routines for simple test system automation that streamline repetitive or complex tasks. Operates on 115VAC, measures 4"H x 8.5"W x 14"D and weighs 13 lbs. Comes complete with operator's manual, service manual, test leads, NIST traceable certificate of calibration and 3-year warranty. An optional accessory pouch (405-901) attaches to the top of the DMM for storage of test leads and accessories.

Part No.	Model	Description	Price
405-897	34401A	True RMS 6-1/2 Digit DMM	\$1,166.15
405-901	34161A	Accessory Pouch	\$42.15

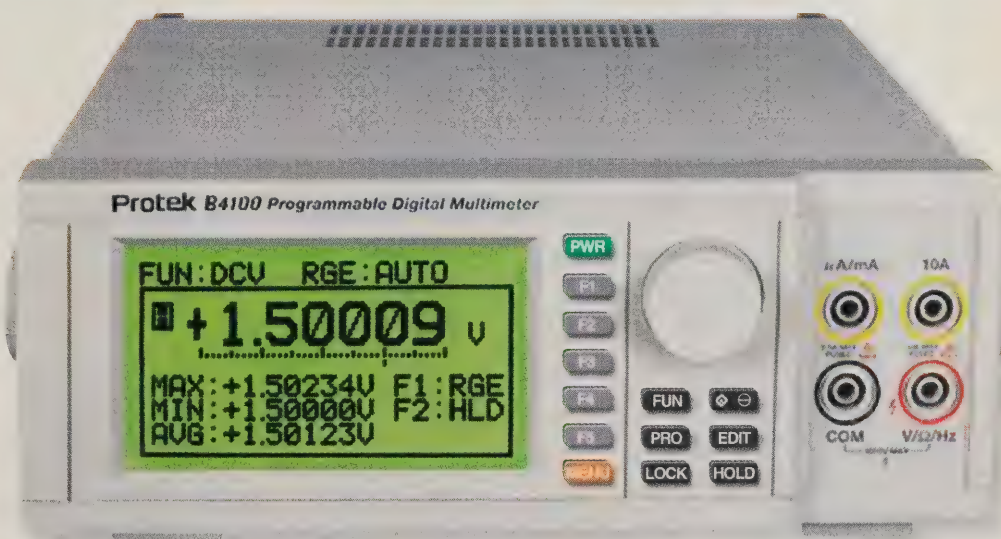
Model 34401A and 34812A Specifications	
DC Voltage	100mV 1V 10V 100V 1000V
AC RMS Voltage	100mV 1V 10V 100V 750V
DC/AC Current	10mA 100mA 1A 3A
Resistance	100Ω 1KΩ 10KΩ 100KΩ 1MΩ 10MΩ 100MΩ
Frequency	3Hz to 300KHz
Resolution down to:	100nV 10nA (DC) 1μA (AC) 100μΩ 10μHz

Protek

True RMS 5-1/2 Digit Benchtop DMM

- 5-1/2 Digit multimeter
- True RMS and measures frequency
- Auto-ranging
- Trend plot display
- RS-232 interface standard and optional GPIB interface
- Min/Max/Avg, relative error and comparison functions
- Software included
- Seven setups may be stored and recalled in memory

This 5-1/2 digit, 100,000 count benchtop multimeter measures DC and AC voltage and current, resistance, frequency, diode and continuity. Display: 128x64 pixel super-twisted LCD; slow-counts to 200,000; medium-counts to 20,000; fast-counts to 2000. The unit can be used with line voltages from 85V to 250V without any internal changes. The supplied software is Windows®-based and allows the user to set the instrument parameters from a PC via the RS-232 interface, and provides time stamped data logging for all functions. Measures 3.3" x 12.0" x 11.0", and ships complete with manual, power cord, BNC cable, software disk and RS-232 cable.



Part No.	Model	Description	Price
420-995	B4100	True RMS 5-1/2 Digit DMM	\$599.00

Model B4100 Specifications		
	Ranges	Accuracy
DC Voltage	200mV, 2V, 20V, 200V, 1000V	.05%
AC RMS Voltage	2V, 20V, 200V, 1000V	.5%
DC/AC Current	2mA, 200mA, 2A, 10A	.5%
Resistance	200Ω, 2KΩ, 200KΩ, 2MΩ, 10MΩ	.05%
Frequency	200Hz, 2KHz, 20KHz, 200KHz	.05%
Diode	4V	

New

430 Series 3-Phase Power Quality Analyzers

**Pinpoint Power
Problems Faster,
Safer, & Greater
Detail**

- Records all your necessary values in a 3-phase system
- Minimal set-up required with intuitive menus
- Higher safety rating in the industry
- 600V CAT IV safety rating
- 4 voltage and 4 current channels
- Captures waveform data on all phases simultaneously
- System-Monitor: 6 power quality parameters on one dashboard
- Automatic Transient display: Don't miss an event
- Auto Trend: Don't waste time setting up recordings
- Rugged, handheld recorder
- 7 hours operating time per charge on NiMH battery pack
- Transfer data files to your PC for reporting and analysis using FlukeView® software
- 3-year warranty

The Fluke 434 & 433 3-phase power quality analyzers help you locate, predict, prevent and troubleshoot problems in power distribution. These easy-to-use handhelds are a must have any person who maintains or troubleshoots 3-phase distribution. The new IEC standards for flicker and power quality are built right in to take the guesswork out of monitoring.

Part No.	Model	Description	Price
424-370	433	Power Quality Analyzer	\$3,500.00
424-371	434	Power Quality Analyzer	\$4,250.00

Specifications	434	433
Application	3-Phase	
Inputs	4 Voltage; 3-Phase + N-GND 4 Current; 3-Phase + N	
Measurements		
Vrms, Arms, Hz, W, VAR, VA, PF, Cos (DPF), Crest Factors	✓	✓
Harmonics & THD (V, A, W), k-factor	✓	✓/✓
Inter-harmonics	✓	Optional
kWh & kVARh (forward & reverse), kVAh, demand interval selectable	✓	Optional
Flicker (Pit, Pst, PF5)	✓	✓
Unbalance	✓	✓
Recorder/Auto Trend	✓/✓	✓/✓
Monitor on instrument - watches all PQ parameters	✓	✓
Real space time scope/Phasor diagrams	✓/✓	✓/✓
Dips & swells/Half cycle based	✓/✓	✓/✓
Transient display	✓	Optional
Inrush current	✓	Optional
EN50160 Compliance	✓	✓
Memory (screens/data sets)	50/10	25/5 Standard 50/10 Optional
FlukeView Software & interface cable	✓	Optional

Power Analyzer

The Model 43B Power Quality Analyzer calculates three-phase power on balanced loads from a single-phase measurement. Measures power harmonics, and captures voltage sags, transients, and inrush currents. Also Measures resistance, diode voltage drop, continuity, and capacitance. Monitoring functions help track intermittent problems and power system performance. Continuously measures volts and amps on a cycle-by-cycle basis for up to 16 days. Display shows transients, current at the instant of voltage events and will save up to 40 transients. 20 measurement memories to save/recall screens and data with cursor readings. FlukeView Software can log harmonics and all other readings over time. Software also provides a complete harmonics profile up to the 51st harmonic. Includes a 500A current clamp, TL24 test leads, AC20 alligator clips, TP20 test probes, serial cable and software, hard carry case, manual and 3 year warranty.

Part No.	Model	Description	Price
417-682	43B	Power quality analyzer	\$2,195.00
400-173	C789	Soft Carry Case	\$80.00
417-141	i1000s	1000A Clamp	\$355.00

Measurements	43B
Voltage	5.000~1250V @ ±1.0%
Current	50.00~50.00kA @ ±1.0%
Frequency	40.0~70.0Hz @ ±0.5%
Watts/VA	250~2.5MW @ ±4%
Crest factor	n/a
Power factor	0.25~1.00 @ ±0.04%
COSØ	n/a
K factor	1.0~30.0 @ ±10%
% THD	0.00~99% @ ±0.03%
Ohms	0.0~30.00MΩ @ ±0.6%
Capacitance	0.00nF~500.0µF @ ±2.0%

MegOhmMeters

- Three voltage ranges
- Large, backlit display
- Measures AC/DC volts and low Ohms

The 1520 offers a large, backlit LCD which displays both analog bargraph and digital readings. Three test voltages; 250, 500 & 1000V. Measures and displays precise output voltage. Auto detects voltage on test circuit and displays AC or DC voltage above 30V. Rugged and splash proof case. Comes with TL27 HD leads, lantern tip probes, AC86 large alligators, carry case, manual and batteries. 3-year warranty.

The 1550 has four test voltages 500, 1000, 2500 or 5000V, and measures to 1TOhm. Leakage current and capacitance also measured. Ramp function for breakdown testing. 99 memory locations store all measurements for PC downloading. Comes with case, HD probes, clips, software, interface cable and rechargeable batteries and recharger. 2-year warranty.

Part No.	Description	Price
417-112	1520 MegOhmMeter	\$655.00
420-350	1550 MegOhmMeter	\$3,095.00
416-405	ToolPak	\$25.00

Specifications			
Model	Function	Range	Accuracy
Insulation Resistance			
1520	Auto Ranges	4.000MΩ, 40.00MΩ, + (5% + 2V)	To 100MΩ ± 2%
	Test Voltages	250V, 500V, 1000V	+20%, -0%
1550	Range	200 kv - 100GΩ 10 GΩ - 1 TΩ	+5% ±20%
	Test Voltages	500V, 1000V, 2500V, 5000V	+10% -0%
Lo-Ohms (1520 only)			
1520	Resistance	0 to 40.00 Ω	2% + 2 counts
Leakage Current (1550 only)			
1550	Current	1 nA to 2 mA	+ (5% + 2 nA)
Capacitance Measurement (1550 only)			
1550	Capacitance	0.01 µF to 15.00 _F	+ (15% rdg + 0.03 _F)
Voltage			
1520	AC/DC Voltage	0 to 600V (50/60 Hz)	2% + 2 counts
1550	AC/DC Voltage (live circuit indicator)	30 V to 600 V (50/60 Hz)	± (5% + 2V)



watts up?

watts up? Power Analyzer

- Power analyzer - watt meter - electricity monitor
- Displays cost of electricity in dollars and cents
- Tracks True RMS power over time
- Sixteen values displayed, updated real-time
- Peak Reading captures surges
- Duty Cycle identifies how often devices operate
- Elapsed time in hours and days
- Monthly averages for cost and KWH

Manage your electric bill with this Home Automation Top 50 editors pick. State-of-the-art digital microprocessor design uses high-frequency sampling of both voltage and current for true power. Power factor is captured so even phase-shifted loads such as motors are accurately measured. Use watts up? to determine exact loading for specific equipment, monitor and project energy costs, identify problems with outlets or wiring systems, optimize appliance controls for best efficiency, etc.

Watts up? PRO includes memory storage and the ability to download the data to a PC. In addition to all the standard features of watts up? the PRO includes a serial cable and software which allows data to be quickly downloaded to a PC for usage charts, data tables, and automatic payback analysis calculations.

The unit operates on 120VAC and can handle up to 1800 watts or 15 amps continuous. Accuracy is 3% above 10 watts and 5% below 10 watts. For indoor use only.

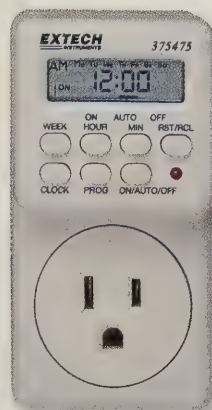
Part No.	Model	Description	Price
423-626	watts up?	Power Analyzer	\$96.00
423-627	watts up? Pro	Power Analyzer	\$131.00



Programmable Digital Timer

- Programs 12 switchings per week

Compact, programmable timer provides up to 6 separate on/off settings per week, with a minimum switch time as low as 1 minute. Plugs into 3-prong 110VAC outlet, features LCD display, push buttons for easy programming and battery backup to prevent programs from being cleared during power failure. Accepts appliances with 3-prong plugs and is rated at 15 amps. Comes complete with manual and AAA battery (1-1/2 year life) for memory backup. UL listed.



Part No.	Model	Description	Price
123-319	375475	Programmable Digital Timer	\$39.75



Sure Test Circuit Analyzers

- Peak voltage
- True RMS
- Identifies false (bootleg) grounds
- Tests GFCIs for proper operation

Test the integrity of branch circuits under full load. Measures line voltage, true RMS voltage, peak voltage and frequency. Verifies isolated grounds (with 61-176 adapter). Measures ground to neutral voltage, hot and neutral conductor impedances and identifies proper wiring in 3-wire receptacles. Locate loose wire connections, test AFCI and GFCI protected circuits, check ground impedance or measure harmonic distortion by simply plugging the SureTest into an outlet.



Part No.	Model	Description	Price
423-601	61-154	SureTest circuit analyzer	\$223.30
423-602	61-155	SureTest circuit analyzer with arc fault tester	\$268.10
423-619	61-179	Carrying Case	\$11.85
423-620	61-182	1' Extension cord for 61-154,61-155	\$8.25
423-628	61-175	Ground continuity adapter	\$13.95
423-629	61-176	Isolated ground adaptor	\$13.95
423-630	61-183	Extension cord with alligator clips	\$27.55



For an expanded selection of test & measurement products visit contacteast.com or jensentools.com

Power Investigator

- Finds and explains problems
- Suggests solutions

The Power Investigator is like having a professional electrician in your toolbox. Simple plug into an outlet, leave it for a few hours, and it examines power quality for nine types of problems and counts each event type (up to 65,000). It downloads a report telling you in plain English the causes of problems and their effect on electronic equipment. A solutions report is printed detailing how to correct the problems. Output is provided via built-in parallel port. Printer not included. Works on AC lines from 80V to 300V, 40Hz to 400Hz. 7 x 4.5 x 2.25", 2 lbs. One year warranty.



Part No.	Model	Description	Price
693-001	PI 500	Power Investigator	\$449.00

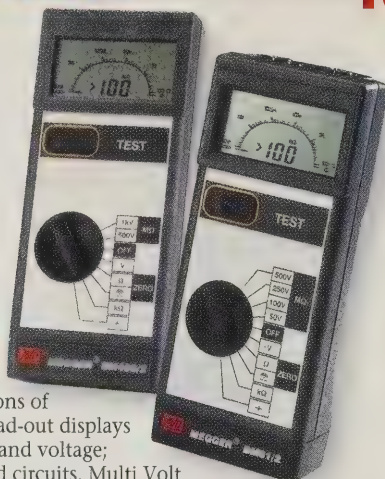


Megger Insulation & Continuity Testers

- Big, easy-to-read displays
- Auto-shutoff saves batteries
- Multiple test voltages

Analog pointer makes rapid evaluations of insulation condition while the digital read-out displays the exact readings. Measures continuity and voltage; beep warns if it is connected to energized circuits. Multi Volt Megger low test voltage ranges are perfect for sensitive equipment such as telecom, bio-medical and computer controlled circuits, while still offering the higher voltages. Pocket Megger is an auto-ranging two voltage (500/1000V) model designed for industrial use with less sensitive equipment. Both models come with test leads, batteries and carrying case. One year warranty.

Part No.	Description	Price
419-666	BM81/2 Multi Volt Megger	\$1,093.10
293-400	BM400/2 Pocket Megger	\$622.00
293-301	DLB2 Download base w/ RS232 interface	\$265.20
293-302	SP1 Switched Probe Set	\$76.50
293-303	MCC10 Current clamp, 10A	\$295.80
293-304	Test and carry case	\$75.00



Multi-Megger® Insulation Testers

Now you have an all-in-one insulation tester/multimeter. In addition to extremely high sensitivity insulation testing to 200GΩ, you have complete multimeter test functionality and the ability to view the insulation measurement in terms of leakage current.

The BMM80 includes capacitance measurements and millivolt input to accept a wide range of adapters from temperature to current. The BMM 2000 and BMM 0280 measure up to 500VAC in addition to their insulation tests and accept millivolt adapters. The BMM2500 and BMM2580 offer test storage and download. All models include test leads, carry case, switched probe, and BMM2500 series includes software.

Part No.	Model	Price
293-005	BMM2580	\$1,380.00
293-004	BMM2500	\$800.00
293-003	BMM2080	\$1,235.50
293-002	BMM2000	\$696.50
293-080	BMM80	\$1,195.00



Power Clampmeter

- Data storage
- 2000 amp capacity
- Waveform viewing on-screen

The DCM2000P combines the functions of oscilloscope, power meter, harmonic analyzer and data logger. It is built to 1010-1 600V Cat IV supply side safety standards. The large backlit display shows multiple parameters simultaneously. It can measure DC and AC voltage up to 600V. DC, AC and DC+AC current up to 2000A. Also energy consumption, frequency, crest factor, total harmonic distortion, distortion factor and ripple. It has a built-in three-phase adapter.

View harmonics out to #25 and display waveforms in realtime. Measure true power, apparent power, reactive power and power factor. The unit measures in true RMS mode for accurate readings on all non-sinusoidal waveforms, both current and voltage.

This battery powered precision power meter can store up to 5000 readings. The maximum logging period is determined by battery life and memory capacity (about 24 hours battery life in this mode). The optional PowerLog software allows datalogging directly to a PC and downloading of stored logs. PowerClamp comes with test leads, carry case and manual.



Voltage	0.000-750V @ ±1.0%
Current	0.00-2000A @ ±1.5%
kW/kVA	0.000-1200kW/kVA @ ±2.5%
kVAR	0.000-850kVAR @ ±2.5%
kWH	0.000-40,000kWH @ ±0.5%
Frequency	0.0Hz-1kHz @ ±3%
Crest factor	1.00-5.00 @ ±3-5%
Total harmonic distortion	1.0-600.0% @ ±3-5%
Distortion factor	1.0-100.0% @ ±3%

Part No.	Description	Price
293-006	DCM2000P	\$1,275.00
293-008	PowerLog Software	\$146.50



For replacement batteries, see page 437

Digital Earth Tester

- Weatherproof
- Simple automatic operation

Designed to test simple earth electrodes. Earth resistance measured from 100mΩ to 2kΩ. Three terminal operation. Completely automatic testing. Rejects noise to 40V. Eight AA batteries included. One year warranty.

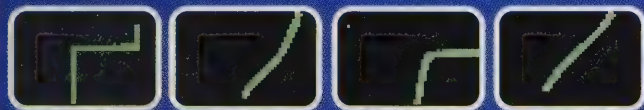
Part No.	Model	Description	Price
293-070	DET62D	Digital Earth Tester	\$615.00
293-103	-	Carrying Case	\$141.50
293-160	-	Three Terminal Earth Probe Kit	\$345.00



Trackers

Power-Off Testing-Ideal for Catastrophic Failures

The Tracker works by applying a current-limited AC signal across two points of a component. The current flow causes a vertical deflection of the CRT trace, while the applied voltage causes a horizontal deflection. Together they form a unique V/I (voltage/current) signature that represents the overall health of the device under test. Analyzing the signature can quickly determine whether the component is good, bad, or marginal. All models feature a 2.8" (diag.) CRT display, operate at 115V and come complete with user/maintenance manual, test probes, common test leads and 1-year warranty.



Good IC

Bad IC

Good Diode

Bad Diode

Huntron Tracker Specifications

Model	2700	2700S	4000
Ranges (combination of V, R and f)	105	105	6000
Minimum Test Voltage	200mV	200mv	200mV
Maximum Test Voltage	20V	20V	20V
Pulse Generator Output	0-5 volts dc	0-5 volts dc	±10 volts Variable duty cycle
Test Signal Outputs	A, B, Alt.	A, B, Alt.	A, B, Alt, A+B
Display Channels	1	1	2
Range Auto Scan	Yes	Yes	Yes
User Programmable Ranges	None	None	20 groups, 4 ranges per group
Front Panel display of parameters	Yes, LED indicators	Yes, color LCD	Yes, LCD display
Switch Accessory	410	410	None

Tracker "4000"

Provides programmable, state-of-the-art trouble shooting using analog signature analysis techniques. The Tracker 4000 can supply a combination of 6000 selections of voltage, source resistance and test frequency to match the component's characteristics. When troubleshooting even a simple circuit, a fixed-range test produces a composite signature that can mask a number of different characteristics. By testing with different combinations of voltage and resistance, you can view signatures for each of the components of a composite signal. For repetitive test routines, you can set and store 20 customized test groups, with four test ranges for each group for easy recall. The exclusive STAR (Safe Tracker Active Range) feature prevents damaging a component by setting test parameters beyond its current limitation. An integral pulse generator allows the testing of gate fired devices such as SCRs and TRIACs. Measures 15" x 11.6" x 4.5" and weighs 10 lbs.

Part No.	Model	Description	Price
408-917	4000	Tracker Model 4000	\$4,225.00



Tracker 2700

The Tracker 2700 extends the capabilities of power-off testing to trouble-shoot low voltage logic circuitry. Its low voltage ranges also make it ideal for testing passive devices while still in-circuit. The 200mV range allows resistors, capacitors and inductors to be analyzed without turning on the parallel solid state devices, essentially testing these devices "out of circuit". Tracker Signature Analysis eliminates the risk of circuit damage, which can occur when power is applied. Huntron's SigAssist feature displays real-time numeric information, such as breakdown voltage, resistance, capacitance, and power on the LCD for signature interpretation. The Tracker 2700 has 21 selectable voltage/resistance ranges available in 5 frequencies, resulting in a total 105 combinations of voltage, source resistance and test frequency. Measures 11" x 9" x 4" and weighs 6 lbs.

Part No.	Model	Description	Price
419-853	2700	Tracker Model 2700	\$2,795.00



Tracker 2700S

The Huntron® Tracker® 2700S extends the capabilities of the popular Tracker 2700 to scan and compare up to 40 pins per channel using standard IC clips and cables. Comparison can take place manually or automatically allowing you to pick out the signatures differences quickly. Its low voltage ranges also make it ideal for testing passive devices such as high value capacitors while still in-circuit. The Huntron Tracker 2700S is an ideal addition to the service engineer's bench or as a complement to a Huntron ProTrack I system. Using a power-off test method known as Tracker Signature Analysis, it eliminates the risk of further circuit damage, which often occurs when power is applied.

The 200mV range of the Tracker 2700S allows resistors, capacitors and inductors to be analyzed without turning on the parallel solid state devices. The passive devices are essentially tested "out of circuit". Today's portable electronic devices use 3 volt or lower logic circuits. The low test voltage ranges of the Tracker 2700S make it an ideal tool to troubleshoot these products. The Tracker 2700S features variable ranges parameters resulting in over 100 combinations of voltage, source resistance and test frequency. Measures 11.5" x 10.8" x 4.5" and weighs 6 lbs.

Part No.	Model	Description	Price
423-635	2700S	Tracker Model 2700S	\$3,150.00





New

FLUKE

87-Retrofit Kit for Fluke 83, 85, 87-3, 787 Meters

Refurbish Your Reliable Meter

Kit includes: C81Y holster, DR80 meter display upgrade kit, LT71 premium test leads, AC72 slide-on style alligator clips, F1 & F2 replacement fuses, MeterCleaner wipes.

Part No.	Description	Price
424-277	87-Retrofit Kit	\$87.00



Pomona Minigrabber® Test Clip Patch Cord Kit

Hook attaches to component leads up to .060" O.D. Wire (20 AWG wire, .087" O.D.) is 24" long. Rating: 300V, 5A max. Contains 10 pieces, 1 each of 10 colors.

Part No.	Model	Description	Price
411-533	5523	Minigrabber Test Clip Patch Cord Kit	\$32.51



"Softie" Test Lead Kit

Soft, flexible probes have 6" long handles that bend 90° or more and conform to the shape of your hands to end fatigue and greatly reduce wear and breakage of the leads. Leads are 48" long, are rated to 10A and come complete with a screw-on accessory kit that includes: 2 sprung hooks, 2 alligator clips, 2 spade lugs and 2 safety tip covers. Available with exposed, standard banana plugs or shrouded, right-angle connectors.

Part No.	Type of Jack	Price
416-289	Exposed, Standard Banana Plugs	\$24.65
416-290	Shrouded, Right-Angle Connectors	\$24.65

Agilent Surface-Mount Device Probe

Use with virtually any DMM

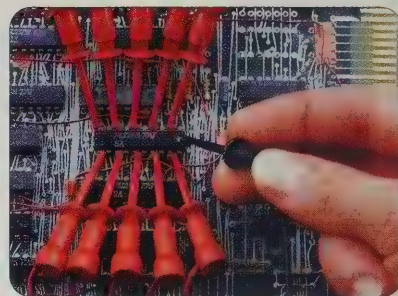
Tweezer design provides an easy method to access and measure SMD resistive networks. Contact tips are gold-plated beryllium copper for positive connection and long life. Length: 1.2m. Max. current: 3A. Max. voltage: 42V peak.

Part No.	Model	Description	Price
405-898	11060A	Surface-Mount Device Probe	\$24.23

EZ-Hook® Test Leads

Most Asked-For Test Accessories

22 AWG 65 x 40 thermoplastic lead wire. Specify red or black. Packaged 10 pieces per bag.



Jumper to Jumper

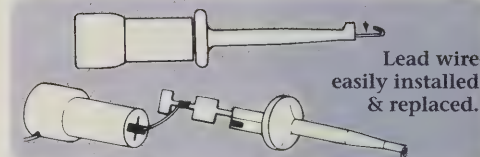
Part No.	Model	Wire Diameter	Length	Price
122-455	204XM-6	.025"	6"	\$51.50
122-450	204XM-12	.025"	6"	\$50.30
122-453	204XM-24	.025"	24"	\$50.30
122-448	204-6W	.040"	6"	\$47.30
122-444	204-12W	.040"	12"	\$47.30
122-446	204-24W	.040"	24"	\$47.30

Jumper to Stacking Banana Plug

Part No.	Model	Wire Diameter	Length	Price
122-438	201XM	.025"	36"	\$47.30
122-435	201W	.040"	36"	\$48.05

Jumper to Meter Banana Plug

Part No.	Model	Wire Diameter	Length	Price
122-459	205XM	.025"	36"	\$51.20
122-457	205W	.040"	36"	\$53.05



E-Z-Hook® Test Connectors

Make your own test leads and jumpers! These connectors feature a spring-loaded hook that attaches firmly, yet gently. It will not damage component and frees hands while testing. Designed for difficult IC test connections. Lightweight (less than 1 gram) and finger "hypo" action permits direct hookup to delicate wires where weight and leverage may damage component. Insulated to single contact point to assure true readings. One-piece beryllium copper, gold-plated conductor and hook, stainless-steel spring and nylon body. Available in red or black. Packaged in plastic bags of 10 pieces.

Part No.	Model	Diameter	Price
124-341	XM	.025"	\$20.40
124-325	X100W	.040"	\$19.60



6-Piece Ceramic Alignment Set

- Zero electromagnetic induction
- No eddy current loss in HF

Tools feature ceramic blades (15 mm long) and an anti-static handle. Set includes the following tools: slotted 0.9mm, 1.3 mm, 1.8 mm, 2.6 mm, Phillips #0 and #1.7.



Part No.	Description	Price
416-925	6-Piece Ceramic Adjustment Tool	\$53.45



4-in-1 Ceramic Alignment Tool

- Zero electromagnetic induction
- No eddy current loss in HF

Tool features an anti-static handle and two double-ended ceramic blades: slotted 0.9 mm, 1.8 mm, 2.6 mm and Phillips #1.7.



Part No.	Description	Price
416-924	4-in-1 Ceramic Adjustment Tool	\$23.15



Ceramic Alignment Tools

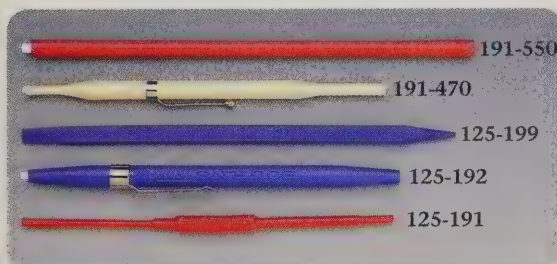
- Zero electromagnetic induction
- No eddy current loss in HF

Tools feature ceramic blades (15 mm long) and an anti-static handle.

Part No.	Blade Style	Tip Size	Price
416-917	Slotted	0.9 mm	\$13.45
416-918	Slotted	1.3 mm	\$13.45
416-919	Slotted	1.8 mm	\$13.45
416-920	Slotted	2.6 mm	\$13.45
416-921	Phillips	#00	\$13.45
416-922	Phillips	#0	\$13.45

Alignment Tools

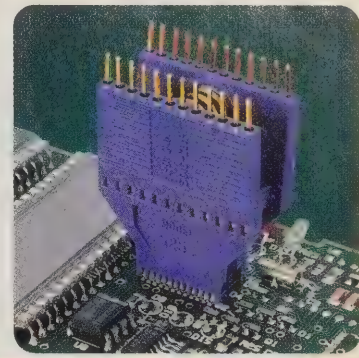
These are the most popular alignment tools used in electronics.



Part No.	Description	Price
191-550	Duplex Aligner, Metal Tips, One End Recessed, 6-1/8" Long	\$3.11
191-470	Miniature Potentiometer-Trimner Adjustment Tool, 5" Long	\$2.95
125-199	Double Screwdriver, Insulated (no metal) 6" Long	\$1.05
125-192	Standard Trimpot Adjustment Tool 5" Long	\$3.25
125-191	Double Hex Adjustment Tool, Insulated (no metal) 5" Long	\$1.05

Pomona SOIC Clip™ Test Adapters

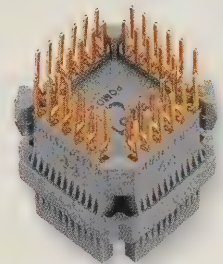
Designed for testing small outline integrated circuits (SOIC & SOJ). They feature a glass-filled nylon body with stainless steel spring and gold-plated beryllium copper contacts for positive connection and long life. Molded barrier between each contact allows connections to be made on live boards without accidental shorting of adjacent contacts.



Part No.	No. of Pins	Price
122-744	8	\$8.59
122-745	14	\$9.42
122-746	16	\$10.25
122-747	20	\$11.80
122-748	24	\$17.19
122-760	28	\$21.02

Pomona Quad Clip® Test Adapters

These test adapters are designed for board mounted Plastic Leaded Chip Carriers (PCC or PLCC) with "J" leads. A "snap-ring" design allows the Quad Clip to firmly grip the IC without the use of springs. All contacts are gold-plated beryllium to ensure long life and low contact resistance.



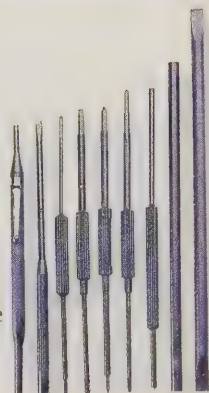
Part No.	No. of Pins	Price
122-749	20	\$21.02
122-750	28	\$34.37
122-765	32	\$36.24
122-751	44	\$40.38
122-753	52	\$47.62
122-757	68	\$53.84
122-758	84	\$64.19

Anti-Static Alignment Tool Kit

Kit contains nine anti-static alignment tools. The wide range of tip styles and sizes allows you to adjust or align virtually any conventional component. Comes complete with pocket storage case.



Part No.	Description	Price
400-304	Anti-Static Alignment Tool Kit	\$16.50





HUNTRON

Microprobes™ Test Leads

Easy Access without Shorting

These unique, general-purpose test lead probes are insulated right down to the needle-sharp stainless steel tips. The durable sharp points keep the Microprobes where you want them and the 2000V insulation factor of the Kynar electrode coating helps you avoid shorting out the devices under test. Probe length retracted: 5.1"; fully extended: 7.6". Electrode's length 4.3"; diameter 0.058". Wire length 40" with standard banana plug.

Part No.	Description	Price
744-109	Microprobes™ Test Leads	\$28.00

General Purpose Audible Continuity Tester

For Point-to-Point Continuity

This tester gives a clear audible signal on point-to-point continuity and is suitable for Go/No-Go tests for wires, cables, LEDs, switches, diodes, transistors, etc. It features a built-in 3.5kHz piezo-electric oscillator for a clear audible signal over background noise, and its rugged surface-mounted circuit is housed in an impact-resistant molded case. It has a probe voltage of 9V, short circuit current of 5mA, and no high current surges. Comes complete with test probes and detachable alligator clips. Operates on a 9V battery (not included). 3-1/2" x 2-1/2" x 1-1/4". Weighs 4 oz. An optional RS232 test-lead adapter is available. It fits over test probe end, and has male and female RS232 pins to allow testing of computer cables.

Part No.	Description	Price
123-945	Audible Continuity Tester	\$33.50
124-252	RS232 Test Lead Adapter	\$1.66
473-005	9V Alkaline Battery	\$2.85

MENDA

Circuitracer® Voltage and Continuity Tester

Tests continuity on dead circuits and voltages from 2V to 500V AC or DC. Indicator lamp at tip allows you to keep eyes on probe. Comes with two interchangeable bulbs for low-voltage (0 to 70V) and high-voltage testing (60 to 500V). Also test continuity from 0 to 10Ω. High-impact molded body with rugged 3 ft. lead, fitted with insulated alligator clip. Operates with two AAA batteries (not included). 6" long. Weighs 1-1/2 oz.

Part No.	Description	Price
122-289	Voltage & Continuity Tester	\$15.75
473-001	Energizer Alkaline AAA Battery	\$0.97



General Purpose Test Lead Kit

11-piece kit features 40" PVC test leads (1000V rating) with shrouded banana plugs and threaded, stainless steel probe tips that accommodate screw-on accessories. Comes complete with carrying case, (2) standard banana jack adapters, and screw-on accessory adapters including: (2) plunger hooks and (2) alligator clips with removable insulators. UL listed.

Part No.	Model	Description	Price
405-793	400001	General Purpose Test Lead Kit	\$27.55



Variable Length Test Leads

- For applications that require a thin, streamlined test prod
- Tips extend up to 2.5"
- Easy access to circuits without shorting out components

Thin-body test leads permit testing on electronic components (small-outline transistors, surface mount devices, etc.) where it is impossible to make a connection to the device using a standard test lead. Stainless-steel probe is Teflon® insulated up to the needle-sharp tip to prevent unwanted contact with adjacent pins or components. Probe tips can be extended up to 2.5" to provide easy access for hard-to-reach test points. Probe length retracted: 5.25"; fully extended: 7.75". Wire length is 48". Available with exposed, standard banana plugs or shrouded, right-angle banana plugs.

Part No.	Model	Type of Jack	Price
405-792	110012	Exposed, Standard Banana Plug	\$11.00
405-791	110010	Shrouded, Right-Angle Banana Plug	\$12.55



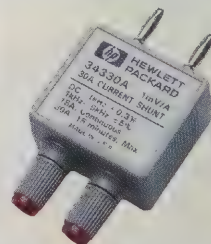
Agilent

30A Current Shunt

- 15A continuous; 30A for 15 minutes max.
- Use with any DMM

This shunt can be used to extend the current measurement range of virtually any DMM. Output is 1mV per amp of current passing through the shunt. Accuracy: DC-1KHz, ±0.3%; 1KHz-5KHz, ±5%.

Part No.	Model	Description	Price
405-903	34330A	30A Current Shunt	\$61.60





New

DataView® Professional Data Analysis and Reporting Software

Display & Analyze Real-Time Data on Your PC

- Customize view, templates & reports to your exact needs
- Download, display & analyze recorded data
- Print reports using standard or custom templates you design
- Display real-time data & waveforms
- Insert text annotations & graphic objects from other applications

Part No.	Description	Price
424-384	DataView Professional Software	\$395.00



New

Power Quality Loggers

Power Quality Analysis Made Simple

- Portable, compact units plug into standard 120V outlets
- Simple operation: plug-in, record, download & read
- Measures & stores electrical parameters: V, A, Hz and more
- Measures & stores power parameters: W, VA, VAR, demand, peak demand & more
- Measures & stores power quality parameters: harmonics, THD, K-factor & more
- Automatically captures worst-case surge, sag & THD waveforms
- High accuracy & resolution: 128 sample/cycle, 16-bit resolution
- Records up to 12 data channels
- Powered from voltage input channel
- Battery back-up data integrity during power outages for up to 1 year
- Optically isolated RS232 output for direct PC connection
- EN 61010, 150V CAT III
- Includes DataView® Lite software for data storage, analysis & report generation

Part No.	Model	Description	Price
424-380	PQL100	128KB Power Quality Logger	\$795.00
424-381	PQL120	128KB Power Quality Logger	\$795.00
424-382	PQL100	1MB Power Quality Logger	\$895.00
424-383	PQL120	1MB Power Quality Logger	\$895.00
424-386	2119.02	Soft Carrying Case	\$19.00

New

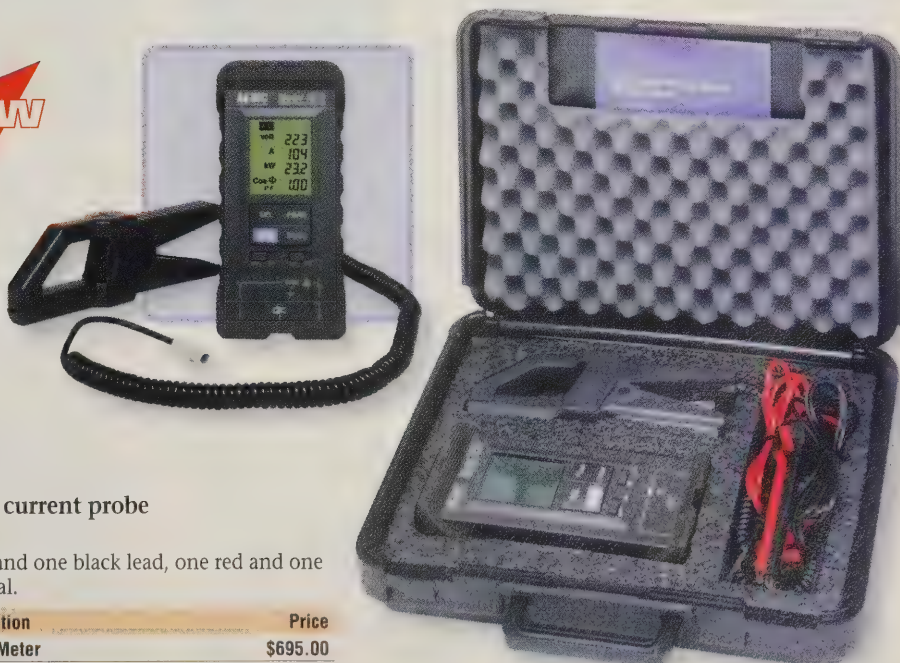
Digital TRMS Power Meter

Selectable Single-Phase and Three-Phase Settings

- Direct display of multiple measurements for easy reading
- Peak and memory functions for load analysis
- Simple, user-friendly operation
- Large format display
- Built to IEC 348 safety standards
- Compact and rugged instrument complete with 500A current probe and safety rubber housing

Includes new high impact carrying case, 500A probe, one red and one black lead, one red and one black test probe, one red and one black grip probe and user manual.

Part No.	Model	Description	Price
425-609	3910	Power Meter	\$695.00





New



PMR-1 Phase & Motor Rotation Tester

- 3 functions in one unit: phase rotation tester, motor rotation tester, open phase indication
- Fused phase rotation inputs
- Battery operated (motor rotation)

Includes 4 ft test leads (black, red, blue) with large alligator clips, soft carrying case and user manual.

Part No.	Model	Description	Price
420-765	PMR-1	Phase & Motor Rotation Tester	\$99.00

New



PR-1 Phase Rotation Meter

- Phase rotation (ABC or BAC) LED indicators
- Bright LED indication of live or open phase (A, B, C)
- Fuse protected inputs
- Double insulated case
- Permanently attached loss-proof leads
- Tangle proof lead separator
- Simple operation
- Line powered - no battery

Includes: meter with attached 5 ft. color-coded leads and alligator clips, soft carrying case and user manual.

Part No.	Model	Description	Price
424-388	PR-1	Phase Rotation Motor	\$69.00

New



CBI-1 Circuit Breaker Identifier

Quickly Identifies & Pinpoints 120VAC Circuit Breakers & Fuses

- Self-calibrating
- No need to interrupt power
- Audible tone generated when matching breaker is located

Part No.	Model	Description	Price
424-389	CBI-1	Circuit Breaker Identifier	\$54.00

New



Sniff-It 2 Non-Contact AC Voltage Detector

Non-Contact AC Voltage Detector with Adjustable Sensitivity Control

- Variable sensitivity, from 5 to 600 VAC
- Safe, non-contact voltage probe
- Convenient pocket-size
- Visual and audible alerts when AC detected
- Use to locate breaks in wires
- Non-contact insulated tip allows safe troubleshooting
- Powered by 1, A23 battery included
- 5-year limited manufacturers warranty
- Does NOT detect DC voltage

Test for the presence of AC voltage on outlets, circuit breakers, test equipment, power tools and AC motors. Measures 5.8" x 1.25" x 0.8" and weighs 2 oz..

Part No.	Model	Description	Price
424-387	9601	Sniff-It 2 Non-Contact AC Voltage Detector	\$15.95

WABER TRIPP-LITE

Premium Surge Suppressors

Isobar® Ultra and Isotel® Ultra Surge Suppressors

Protects against surges, spikes and line noise. "Cascade circuitry" offers increasing levels of protection for more-sensitive equipment. Features all-metal housing and lighted on/off switch. Logical outlet configuration accommodates interference from equipment. "Ultra" models feature diagnostic LEDs which provide advance warning of potential power problems-before equipment damage can occur. All models provide instantaneous surge response, with suppression of up to 96,000-amp spikes or 2,850 joules.

Part No.	Model	Description	Outlets	Length	A	Price
122-547	ISOBAR 2-6	Economical version	2	6'	600	\$39.10
180-514	ISOBAR 6 ULTRA	Isolated filter banks	6	6'	2350	\$94.95
401-317	ISOTEL 4 ULTRA	Modem/fax protection	4	6'	2700	\$64.85
400-742	ISOBAR 8 ULTRA	Modem/fax protection	8	12'	2850	\$78.90
414-474	ISOTEL 8 ULTRA	Modem/fax protection	8	12'	2850	\$82.55

EXTECH INSTRUMENTS

Combination Contact/Photo Tachometer

- 0.5 to 99,999 RPM
- Accurate to $\pm 0.05\%$
- Resolution down to 0.1 RPM

Incorporates both a photo and a contact tachometer into one precision instrument accurate to 0.05%, with a resolution down to 0.1 RPM in either photo or contact mode. In the contact mode it ranges from 0.5 to 20,000 RPM, and in the photo mode from 5 to 99,999 RPM. Linear surface speed measurements are available from 0.2 to 6,550 ft./min. or 0.05 to 2,000.0 m/min. Memory/Min/Max button holds last reading for 5 minutes and can be used to recall minimum and maximum readings. Characters on the large 5-digit display reverse direction depending on which measurement mode you are in. Sampling time is: Photo: 1 sec (over 60 RPM); Contact: 1 sec (over 6 RPM). Measures 8.5" x 2.6" x 1.5", weighs only 10 oz. and comes complete with batteries, accessories for linear speed and RPM manuals, reflective tape and carrying case. 1 year warranty.



Part No.	Model	Description	Price
123-376	461895	Combination Contact/Photo Tachometer	\$233.95

STANLEY

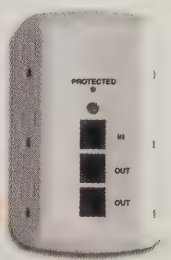
Surge Protectors

\$20,000 connected-equipment warranty. Ground and surge protection indicators. Six grounded outlets. 740-900 joule protection.

294-001 Inline model features 6' power cord, 15A circuit breaker, unused outlet lock-outs and cord management claws.

294-002 Wall mount model features phone/fax/modem protection with built-in line splitter.

Part No.	Description	Price
294-001	Surge Protector, Inline	\$15.00
294-002	Surge Protector, Wall Mount	\$11.15

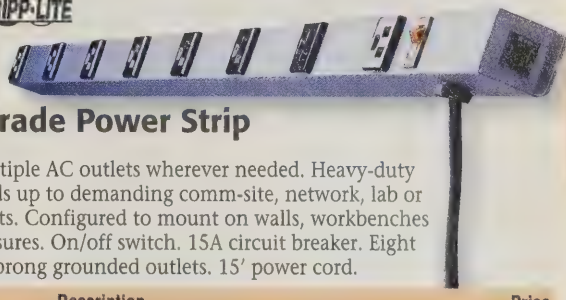


WABER TRIPP-LITE

8-Outlet Industrial-Grade Power Strip

Convenient multiple AC outlets wherever needed. Heavy-duty metal housing stands up to demanding comm-site, network, lab or factory environments. Configured to mount on walls, workbenches or inside rack enclosures. On/off switch. 15A circuit breaker. Eight NEMA 5-15R three-prong grounded outlets. 15' power cord.

Part No.	Description	Price
205-408	8 Outlet Industrial Power Strip, 24"	\$53.60

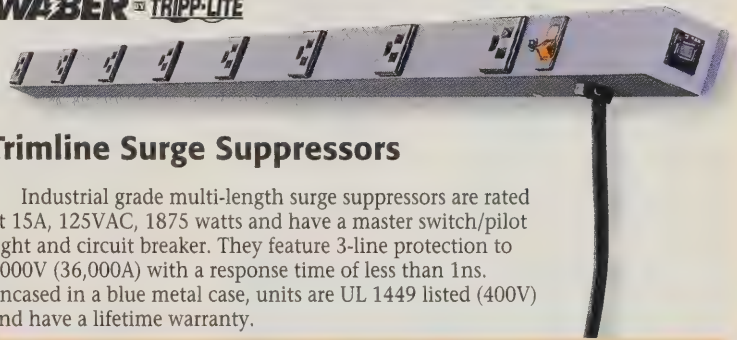


WABER TRIPP-LITE

Trimline Surge Suppressors

Industrial grade multi-length surge suppressors are rated at 15A, 125VAC, 1875 watts and have a master switch/pilot light and circuit breaker. They feature 3-line protection to 6000V (36,000A) with a response time of less than 1ns. Encased in a blue metal case, units are UL 1449 listed (400V) and have a lifetime warranty.

Part No.	Model	Outlets	Size	Cord Length	Price
406-758	SS7415-15	15	4 ft.	15 ft.	\$86.55

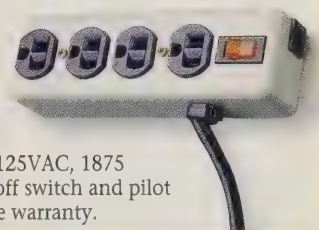


WABER TRIPP-LITE

Power Master Outlet Strips

Industrial grade outlet strips rated for 15A, 125VAC, 1875 watts, feature push-to-reset circuit breaker, on/off switch and pilot light. Ivory color metal case, UL listed. Lifetime warranty.

Part No.	Model	No. of Outlets	Strip Length	Cord Length	Price
120-712	4SPDX	4	8-5/8"	6 ft.	\$15.40
120-724	6SPDX	6	13-1/8"	6 ft.	\$15.95
120-725	6SPDX-15	6	13-1/8"	15 ft.	\$20.55

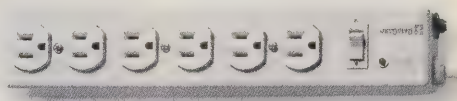


WABER TRIPP-LITE

Surge Suppressor

Silver series surge protection outlet strip is rated at 15A, 120VAC, has push-to-reset circuit breaker, on/off switch and pilot light. Features 3-line protection to 6000V (6500A) with a response time of 1ns. Encased in a steel, gray colored case, unit is UL 1449 listed (330V) and has a 10 year/\$2500 connected equipment warranty.

Part No.	Model	No. of Outlets	Strip Length	Cord Length	Price
120-978	DG206	6	9-1/4"	6 ft.	\$25.70





Fluke 65 Infrared Thermometer

- Very rugged construction
- Laser spot aiming

Designed to take the rigors of field and factory. Shock absorbing holster. Backlit dual LCD display. Measures -40 to 932°F (-40 to 500°C). Measure temperature on hot, electrically live, or rotating equipment accurately from a safe distance. Comes with soft carry case, 2 AA batteries, manual.



Part No.	Model	Description	Price
411-255	65	IR Thermometer	\$289.00

Model 61 Infrared Thermometer

Ideal for measuring surface temps of rotating, hard-to-reach, electrically live or dangerously hot targets. Cut measurement times to zero; press the green button, align the laser on the item to be measured and read the temperature off of the big, brightly back lighted display. Rubber holster included. Measures degrees F & C with resolutions of 0.2°C and 0.5°F @ ±2%.

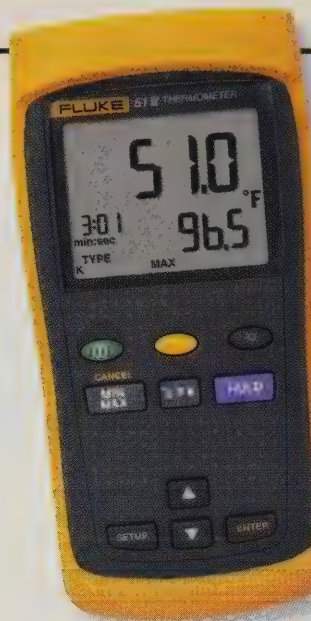


Part No.	Description	Price
419-293	Fluke Model 61 IR thermometer w/laser	\$109.00

50 Series II Thermometers

Lab Accuracy Wherever You Go

- Measures J, K, T and E-types of thermocouples
- Additional thermocouple types R, S and N (Models 53-2 & 54-2 only)
- Readout in °C, °F or Kelvin (K)
- 0.05% accuracy
- Backlit dual display
- Battery replaceable without voiding calibration
- Splash-proof/dust-resistant case
- Data logging of up to 500 points of data (Models 53-2 & 54-2 only)
- Built-in Infrared PC interface (Models 53-2 & 54-2 only)



These contact thermometers display temperature in °C, °F or Kelvin with fast response and a laboratory accuracy of 0.05%. They feature a user-friendly front panel for easy setup, backlit dual display, min/max/avg mode with time stamp, a splash-proof/dust-resistant case protected by an impact absorbing holster, and accept four thermocouple types (J, K, T & E). In addition, an electronic offset function allows compensation of thermocouple errors to maximize accuracy. Four models to choose from. **Model 51-2** has all of the above features plus a single input. **Model 52-2** has all of the above features plus dual inputs (T1 and T2) for multipoint measurement and a differential mode (T1-T2) for automatically calculating the difference between the two inputs. **Models 53-2** (single input) and **54-2** (dual input) have all of the features of **Models 51-2 and 52-2** plus data logging, three additional thermocouples, real time clock and IR communication port. With data logging, you can record up to 500 points with a user adjustable recording interval. A recall function allows logged data to be easily reviewed on the meter display. Additional thermocouple types R, S and N provide a total of seven different types. The real time clock captures the exact time of day that an event occurs. The built-in IR (infrared) communication port allows data to be exported to your PC for further analysis and graphing, using the optional FlukeView® Temperature software. If your computer doesn't have an IR interface, the software comes with an IR adapter and cable that lets your PC communicate with your thermometer. All models operate on three AA batteries (included), measure 6.8" x 3.4" x 1.5" and weigh 14 oz. Come complete with manual, a K-type bead probe for each input, and a 3-year warranty. Available with or without NIST-traceable certificate of calibration.

Part No.	Model	Description	Price
412-515	51-2	Single Input Thermometer	\$169.00
317-512-C	51-2C	Model 51-2 with Certificate of Calibration	\$225.00
412-517	52-2	Dual Input Thermometer	\$219.00
317-522-C	52-2C	Model 52-2 with Certificate of Calibration	\$275.00
412-519	53-2	Single Input Thermometer with Datalogging & IR Interface	\$249.00
317-530-C	53-2C	Model 53-2 with Certificate of Calibration	\$305.00
412-521	54-2	Dual Input Thermometer with Datalogging & IR Interface	\$299.00
317-504-C	54-2C	Model 54-2 with Certificate of Calibration	\$355.00
416-688	FVF-SC1	Flukeview Forms Software and Cable	\$150.00
416-405	TPAK	ToolPak	\$25.00

50 Series II Specifications Thermometer Selection Table				
Model	51 Series II	52 Series II	53 Series II	54 Series II
Number of Inputs	Single	Dual	Single	Dual
Thermocouple Types	J, K, T, E	J, K, T, E	J, K, T, E, N, R, S	J, K, T, E, N, R, S
Time Stamp	Relative Time	Relative Time	Time of Day	Time of Day
Data Logging	N/A	N/A	Yes	Yes
IR Data Port for Interface to PC	N/A	N/A	Yes	Yes
Compatible w/ Optional FlukeView Software	N/A	N/A	Yes	Yes

Thermocouple Measurement Range	
J-type	-346°F to 2192°F (-210°C to 1200°C)
K-type	-328°F to 2501°F (-200°C to 1373°C)
T-type	-418°F to 752°F (-250°C to 400°C)
E-type	-238°F to 1832°F (-150°C to 1000°C)
N-type (Models 53-2 & 54-2 only)	-328°F to 2372°F (-200°C to 1300°C)
R & S-type (Models 53-2 & 54-2 only)	32°F to 3212°F (0°C to 1767°C)

EXTECH
INSTRUMENTS

IR Thermometers

Measure Surface Temperature of Objects That Are Difficult to Reach or Unsafe to Touch

- Measure temperature from -58 to 1000°F (42530) or 1400°F (42540)
- 2% accuracy
- Built-in laser pointer to improve aim
- °F/°C switchable

Infrared thermometer with laser pointer measures surface temperature of objects that are difficult or dangerous to reach. It features a backlit LCD display, automatic data hold when trigger released, and a fixed emissivity of 0.95. Audible and visible overrange indicators (42530) and auto power off. Operates on 9V battery and comes complete with manual and 1-year warranty.



Part No.	Model	Description	Price
420-958	42530	Wide Range IR Thermometer	\$99.00
420-967	42540	High Temp IR Thermometer	\$149.00

Mini IR Thermometers

Non-contact infrared laser thermometers provide fast, easy and accurate surface temperature measurements

- Built in laser pointer
- Backlit display
- Automatic Data Hold when trigger released
- Auto power off

Compact thermometers with built-in laser pointer measures surface temperature of objects that are difficult or dangerous to reach. It features a backlit LCD display, automatic data hold when trigger released, and a fixed emissivity of 0.95. Overrange indicator (42510) and auto power off. Operates on 9V battery and comes complete with manual and 1-year warranty.

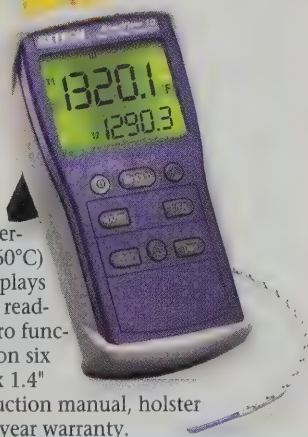


Part No.	Model	Description	Price
420-965	42500	Mini IR Thermometer	\$79.00
420-966	42510	Wide Range Mini IR Thermometer	\$99.00

EasyView Dual-Input Thermometer

- Big backlit display
- Measures Fahrenheit, Centigrade or Kelvin
- Displays [T1 and T2] or [T1-T2 and T1] or [T1-T2 and T2]
- 3% accuracy

This compact, rugged, dual-input K-type thermometer measures -200 to 1999°F, (-200 to 1360°C) and 70 to 1630°K. A built-in timer function displays elapsed time plus the time when Min and Max readings are taken. An offset key can be used for zero function to make relative measurements. Operates on six AAA batteries (included), measures 6.0" x 2.8" x 1.4" and weighs 8.3 oz. Comes complete with instruction manual, holster with built-in tilt stand and two bead probes. 1-year warranty.

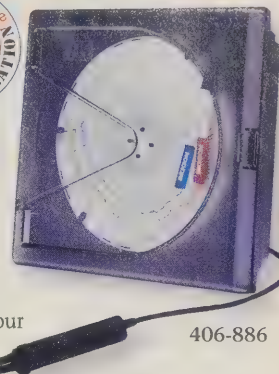


Part No.	Model	Description	Price
419-803	EA10	Dual Input K-Type Thermometer	\$99.00

Temperature/Humidity Portable Chart Recorders

- 0-100°F (0-50°C) Models TH601 & TH602
- 0-185°F (0-85°C) Model TH603 only
- 0-95% RH
- One point (approx. 70°F) NIST-traceable certificate of calibration (Models TH602 & TH603 only)

Temperature/humidity recorders provide 24 hour or 7 day (user selectable) ink records on 6" circular charts and will accommodate a wide variety of applications. They feature: a DIN-compatible ABS enclosure that can be panel or wall mounted, AC power with battery back-up, and programmable recording times and temperature ranges using the built-in keypad. Temperature accuracy is ±2°F (±1°C) and humidity accuracy is ±2% from 10 to 60%, ±3% from 0 to 9% and from 61 to 95%. Three models to choose from. Model TH601 has all of the above features and a temperature range of 0-100°F (0-50°C). Model TH602 has all of the above features, a temperature range of 0-100°F (0-50°C), and an easy-to-read LCD display with 0.1° or 0.1% resolution. Model TH603 has all of the features, a temperature range of 0-185°F (0-85°C), LCD display, a remote probe, audible alarm with programmable min/max values, and a 24V, 0.5A SPST relay contact (normally open) that closes on alarm condition. All models operate on 120VAC (9V battery (included) provides 1 day backup), measure 7.56" x 7.56" x 3.25" and weigh 2.75 lbs. Come complete with manual, AC adapter, one point NIST-traceable certificate of calibration (Models TH602 & TH603 only), box of 60 charts, and 1-year warranty.



Part No.	Model	Description	Price
406-884	TH601	Chart Recorder	\$437.85
406-885	TH602	Chart Recorder with Digital Display	\$514.10
406-886	TH603	Chart Recorder with Display, Remote Probe and Alarm	\$617.10
406-888	P222	Red Replacement Pens, Pkg/6	\$50.40

Charts (Pkg/60)

Part No.	Model	Range	Recording Time	Price
406-887	C657	0 to 100°F/85°C	7 Days	\$33.50
406-910	C658	0 to 100°F/85°C	24 Hours	\$33.50
406-911	C663	0 to 50°F/50°C	7 Days	\$33.50
406-912	C664	0 to 50°F/50°C	24 Hours	\$33.50
406-913	C665	0 to 185°F/85°C	7 Days	\$33.50
406-914	C667	0 to 185°F/85°C	24 Hours	\$33.50

AEMC® Infrared Thermometer

Fast Non-Contact IR Temperature Measurement

- Easy one-hand operation
- Non-contact infrared sensor
- Measures temperature in °F and °C
- Fixed 0.95 emissivity
- Auto-HOLD function
- 2000-count backlit LCD
- Lightweight and compact
- Includes rugged, shockproof, protective, dirt resistant holster

The Infrared Thermometer Model CA870 is a non-contact infrared temperature measuring instrument. It includes a 3 1/2 digit backlit LCD, auto-hold function and auto power off (15 seconds). The MEAS button is used to extend the battery life by automatically stopping measurement temperature and holding the display reading.



Part No.	Model	Description	Price
420-766	CA870	Infrared Thermometer	\$139.00

EXTECH
INSTRUMENTS

Hygro-Thermometer + Infrared Thermometer

Humidity, Air Temperature Plus IR for Measuring Surface Temperatures Without Contact

- Large backlit display
- Primary and secondary display
- Built in laser pointer for 8:1 infrared thermometer
- Max and hold for all functions
- Remote humidity sensor with 39" coiled cable
- Auto power off
- Low battery and overrange indication

Monitor relative humidity and temperature in factories, clean rooms, offices, and greenhouses. Non-contact infrared surface temperature measurements in hard-to-reach areas such as heating and air conditioning ducts. Measures 5.9 x 3.0 x 1.6", weighs 7 oz, and ships complete with built-in stand, protective holster, probe, 9V battery and carry case.

Part No.	Model	Description	Price
425-077	RH101	Hygro-Thermometer + Infrared Thermometer	\$149.00

Specifications:	Range	Basic Accuracy
Humidity	35% to 95%	±5%
Infrared Temperature	-58 to 200°F	±2%
	200 to 932°F	±2%
	-50 to 200°C	±2%
	200 to 500°C	±2%
Air Temperature	-4-140°F	±2°
	-20 to 60°C	±1.8°
Emissivity	0.95	
Field of view	8:1	

EXTECH
INSTRUMENTS

Humidity and Temperature Meter

- Relative humidity with switchable °C/°F
- Analog output for chart recording

10 to 95% RH range, 0.1% resolution and ±3% accuracy. Temperature measurement -4 to 140°F (-20 to 60°C) with a 1.5°F accuracy. 10mV/1%RH, 1°C or 1°F analog output.

Complete with carrying case and 9V battery. One year warranty. 10.6 x 2.7 x 1.0", 8 oz.

Part No.	Description	Price
403-348	Humidity and Temperature Meter	\$159.10



Sound Level Meter

- Easily calibrated
- Available with Calibration Certificate

Perfect for testing sound levels to OSHA's requirements. Large display has a resolution of 0.1 dB. Offers A and C dB frequency weighting, fast or slow response, AC or DC output and peak hold. Covers 30-130 dB with an accuracy of ±1.5 dB. Can be easily calibrated with internal oscillator. Includes fold-out tripod stand, carrying case, calibration tool and instructions. One year warranty.

Part No.	Description	Price
276-029	Sound Level Meter	\$267.25
276-029-C	Sound Level Meter w/Calibration Certificate	\$290.00



Measure Temperatures Up to 50' Away

- Safe, no contact required
- Laser equipped for precise measurement

Accurately measures the temperature of any item without touching it, from distances of up to 50'. Measure items and processes while they are operating saving money and time. Measure very hot items without approaching or protective clothing. Choose the laser sighted model for more precise aiming.

Field of view is 2 angular degrees, giving you a target size of the distance in feet/30'. Filters out ambient light, water vapor and CO₂ absorption. -20 to 2000°F ±1%. 9V battery included. One year warranty.

Part No.	Description	Price
275-100	IR Thermometer	\$810.90
275-105	IR Thermometer with Laser	\$912.90



EXTECH
INSTRUMENTS

Digital Light Meter

- Enhanced accuracy with selectable lighting type
- RS-232 serial interface

The heavy-duty light meter provides professional quality measurement. Large, easy to read 1.4" LCD display (1999 count) operates in Foot Candles or Lux over three ranges (FC 200.0, 2000, 5000; LUX 2000, 20000, 50000). ±4% accuracy is enhanced by selecting lighting type of tungsten, fluorescent, daylight or mercury. Additional features include record/recall MIN, MAX and AVG readings; data hold; auto shut-off and RS-232 serial interface. Complete with 9V battery and rubber holster. 7 x 2.9 x 1.3", 2.25 lbs. One year warranty.

Part No.	Description	Price
406-799	Digital Light Meter	\$169.00
402-732	Data Acquisition Cable and Program (DOS)	\$69.00
190-444	AC Adapter	\$25.00
130-138	Soft Carrying Case	\$19.00



EXTECH
INSTRUMENTS

RH/Temp Pen

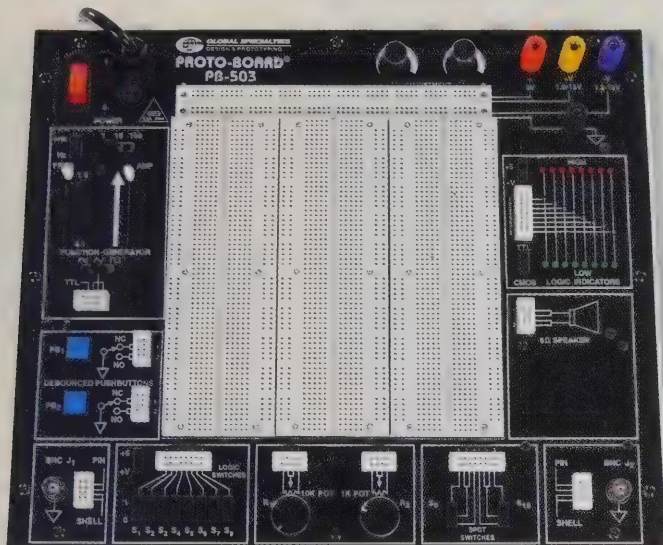
- Pocket sized
- Min/Max and Hold

Simultaneous readout of °C or °F and % RH. Min/Max memory function for temperature and humidity. Ranges: 10 ~ 90%RH, 32 ~ 122°F (0~50°C). Resolution: 1%RH, 0.1°F or C. One 3V lithium battery.

Part No.	Description	Price
411-559	RH/Temp Pen Probe	\$55.00



**For replacement batteries,
see page 437**



GLOBAL SPECIALTIES Proto-Board Station

- Lifetime guarantee on sockets
- Built-in function generator and triple output power supply
- 8 channel logic monitor
- 8 selectable logic switches
- High & low buffered logic indicators

The PB-503 is a complete design workstation, including instrumentation, breadboarding and a rugged DC regulated triple power supply. The instrumentation features a 100KHz function generator with sine, square and triangle waveforms, plus a TTL output for generating clock pulses. Also standard are two digital pulsers operated by debounced push-button switches and eight logic state indicators which operate as individual logic probes. This unit contains multiple features in one complete test instrument, saving hundreds of dollars needed for individual units. The PB-503 design station takes up just over 1 square foot of desk space, while delivering the functionality of a full test bench of performance.

The removable breadboarding area has a total of 2520 uncommitted tie points, enough space for circuits containing 24 IC's of 14 pins or equivalent. The breadboarding sockets have an unlimited lifetime manufacturer's guarantee. The power supply offers three DC regulated supplies, one fixed at +5v and variable from 1.3 to 15v. All three supplies are short-circuit protected, automatically current limiting the output to a safe level.

Operates at 115V, measures 16" x 11-1/2" x 6-1/2" and weighs 7 lbs. Comes complete with manual and 3-year manufacturer's warranty.

Part No.	Model	Description	Price
123-955	PB503	Proto-Board Station	\$305.95

Model PB503 Specifications		
Output:	Fixed DC output:	+5V @ 1.0A
	Variable DC output:	+5V to 15V @0.5A.
	Variable DC output:	-5 to -15V @ 0.5A
Function Generator:	Frequency range:	0.1 Hz to 100KHz
	Output voltage:	0 to ±10V (20V, P-P).
	Output waveforms:	sine, square, triangle, TTL.
	Output impedance:	600 ohms (except TTL).
	Output current:	10mA maximum, short circuit protected.
Logic Indicators:	Eight LEDs active high, 1.4 volt (nominal) threshold, input protected to ±20 volts.	
Debounced Pushbuttons:	(Pulsers) Two push-button, open-collector output pulsers, each with one normally open, one normally closed output. Each output can sink up to 250mA	
Potentiometers:	One 1k ohm, one 10k ohm, all leads available and uncommitted.	
BNC Connectors:	Two BNC connectors, pin and shell available and uncommitted.	
Switches:	Two SPDT slide switches, all leads available and uncommitted. 8-pole DIP switch: one side of all eight switches separate, available and uncommitted.	



Resistance and Capacitance Substituters

Use convenient side-by-side thumb-wheel switches. Simply dial in the desired value. Color-coded switches separate various ranges. Product cases are made from high-impact plastic.

Resistance Substituter

1Ω to 9,999,999Ω in 1Ω steps. Rated 0.5W. Residual impedance 0.3Ω. 3-1/4" x 3-1/4" x 2-1/4". Weighs 6-1/2 oz.

Part No.	Model	Description	Accuracy	Price
513-200	RS200	Resistance Substituter	1% Accuracy	\$156.00
124-118	RS201	Resistance Substituter	0.1% Accuracy	\$313.75

Capacitance Substituter

100pF to 99,999μF in 100pF steps. Rating 100V (20V for 10-100μF scale). Residual impedance 30pF. 4-1/4" x 3-1/4" x 2-1/4". Weighs 8 oz.

Part No.	Model	Description	Accuracy	Price
123-494	CS300	Capacitance Substituter	4% Accuracy	\$175.00
123-495	CS301	Capacitance Substituter	1% Accuracy	\$319.95

Combined Resistance/Capacitance

Combines the features of a resistance and capacitance substituter. Resistance and capacitance can be used independently, in series, or in parallel. Shorting link allows them to be coupled or separated. 7-1/2" x 4-1/4" x 2-1/4". Weighs 14 oz. Model RCS500 combines the features and specifications of the RS200 and CS300 described above.

Part No.	Model	Description	Price
124-104	RCS500	Combined Resistance/Capacitance, Standard Model	\$325.00

STACO Portable Variable Transformer

Provides Variable AC Voltage

- 0-140V, 10A

This popular industrial and laboratory model is used wherever variable AC voltage control is required. Operates on 120V input line and the rated output for constant current loads is 10A. For constant impedance loads the maximum rated output current at line voltage is 13 amperes. It may be operated from 50 to 1500Hz with no reduction in maximum output current; a slight reduction in current is required from 1500 to 2000Hz. Coil tapping arrangements allow for output voltage from 0 to line voltage, or 17% above line voltage. Two models to choose from: Model 3PN1010B, as described above. Model 3PN1010BV has an extra feature: built-in high-quality pivot and jewel AC voltmeter (with 3% F.S. accuracy) for easy accurate reading. Both models come with a ventilated steel case, three-conductor line cord and matching receptacle, switch, and pilot lamp. 5-5/8" x 5" x 6-7/8". Weighs 10 lbs. 1-year warranty.



Part No.	Model	Description	Price
408-193	3PN1010B	Variable Transformer without Voltmeter	\$262.40
408-192	3PN1010BV	Variable Transformer with Voltmeter	\$446.70



YOKOGAWA

New

Clamp-on Power Meters

Compact & light with large back-lit LCD

- Measure up to 3P4W (CW121) or 3P3W (CW120)
- RS-485 or RS-232 communications
- Store up to one-year of data

To help you with your energy conservation needs, Yokogawa introduces its low-cost clamp-on power meters to provide an easy-to-use tool capable of measuring power values and instantaneous values. These meters can be used with current clamps ranging from 50A to 3000A, including the new small diameter current clamp (96033) for measurements in tight spots.

Compact in design, making it ideal for installation inside distribution panels, the CW120/121 also has a large, backlit LCD. This unit can be used for voltage measurements on systems up to 495V. Continuous measurement integration allows accurate measurements even with large load fluctuations. Plus/minus signs are shown for reactive power and power factor. The data saving interval can be set in the range of one second to one hour.

Each measures 117 x 161 x 51 mm, weighs 600 grams, and ships complete with power cord, 3 voltage probes (91018), and users manual. The Complete Power Meter Package (424-257) includes 4 voltage probes (91007), AC power adapter (A1022UP), power supply cable (93030), carry case (93022), software (AP140E), 16 MB flash memory card (97030) and RS-232 cable (91011).



Part No.	Model	Description	Price
424-253	CW120	Clamp-on Power Meter (up to 3 phase/3 wire)	\$1,023.00
424-256	CW121	Clamp-on Power Meter (up to 3 phase/4 wire)	\$1,152.40
424-257	CW121-D-1-SP1	Complete CW121 Power Meter Package	\$1,890.00
424-254	93022	Carry Case for CW120/121	\$186.20
424-255	96033	Small-diameter Current Clamp	\$210.00

Test-Um Inc.

New

Resi-Toner Home Networking Tone Generator

- Powers up installed telephone lines
- Full featured tone generator - 3 tone sounds
- Unique tone sequence for "popping" speakers

Test-Um Inc.'s Resi-Toner™ is a full function tone generator with unique features designed to further test connections on telephone systems and speaker installations. Find your outlets and assure your connections with the Resi-Toner™.

"Powers-up" the installed telephone lines under actual load conditions with a simulated dial tone to check connectivity and proper wiring configurations without a service connection. Full-feature tone generator with 3 different tone sounds and continuity test. Generates a unique tone sequence for testing speaker installations by "popping" speakers will work with either AC or DC coupled speaker types. Includes alligator clip molded cord set (TG10), and 7.5" cable with no-fault RJ12 connectors for RJ11 or RJ45 jacks (TP20). Requires 9V battery (not included).



Part No.	Model	Description	Price
424-267	TG400	Resi-Toner Tone Generator	\$48.93

Test-Um Inc.

New

Resi-Tracer Tone Detector and Cable Finder

- Traces all types of cable: CAT5/6, telephone, coax
- Audible & visual tone location indication
- Senses speaker phasing when used with Resi-Toner™
- Traces coax cable on active systems to eliminate shutdowns
- POTS testing with monitor mode and off-hook listening mode

Resi-Tracer™ combines unique new features for tracing telephone, network, coax, and audio cable with special functions for finding and phasing speakers and testing telephone systems.

Traces all types of cable: CAT5/6, telephone, as well as coax cable on active systems to eliminate shutdowns. Provides audible and visual tone indicators, and senses speaker phase when used with Resi-Toner™. POTS testing with monitor mode and off-hook listening mode. Includes round tip TT30.



Part No.	Model	Description	Price
424-266	TT300	Resi-Tracer Tone Detector	\$63.92



Three-Phase Power Quality Analyzer Model 3945

Wish You Could Look Inside Your Electrical System?

- Display real-time waveforms in color
- Color-coded voltage and current inputs for each phase
- Compact size and rugged protective rubber housing
- True RMS single, two and three-phase measurements
- Includes DataView® software for analysis and report generation



Troubleshooting is so much easier when you can see the volts, amps and harmonic content in real-time, and record the picture for analysis and documentation. AEMC's PowerPad™ makes all that possible!

The 4MB of memory is conveniently partitioned to let you store four different types of data, synchronized or independent of each other. You can store up to 12 screen snapshots or up to 50 captured transients. Capture transients down to 1/256th of a cycle. Detect peak voltage or current. See transformer K-factor display, power factor display, phase imbalance and harmonic distortion.

Six direct access function buttons quickly let you see: Waveforms, Harmonics, Transients, Alarms, Power and Energy and Recorded Data. PowerPad uses current probes that auto configure the instrument's current channel for range and scale. Online help system gives you clear information about the functions and buttons for each screen. The PowerPad speaks six languages: Spanish, French, Portuguese, Italian, German and English.

The PowerPad comes with all options and accessories needed to capture, display, download, analyze and store data. No add-on accessories are required to increase your cost. The unit measures 9.5 x 7 x 2" and weighs 4.6 lbs. Safety rating 600V Cat. III. Comes complete with rechargeable battery, soft carry pouch and user manual.

Part No.	Model	Description	Price
425-000	3945/MN93	PowerPad w/ MN93 Probes	\$3,895.00
425-004	3945/SR193	PowerPad w/ SR193 Probes	\$3,995.00
425-005	3945/193-24	PowerPad w/ AmpFlex™ 193-24 Probes	\$4,195.00
425-006	3945/193-36	PowerPad w/ AmpFlex™ 193-36 Probes	\$4,395.00



Personal Voltage Safety Detector

Can Detect High Voltage Up To 30 Feet Away

- Non-contact AC detector
- Detects 44kV from up to 30 ft (10m) away
- Sound annunciator (buzzer)
- Bright LED
- Includes a built-in clip to attach to outer clothing or belt
- Never sleeps - stays on for over one year
- IP65 rated

The Personal Safety Voltage Detector Model 44SVD is designed to detect high voltage from 2.5kV and up without physical contact. Will detect 44kV from up to 30 feet. As the Model 44SVD is moved close to the voltage carrying conductor, its AC sensor plate picks up the radiated electric field. The electric field is amplified and processed by the internal circuitry. Once the processed signal is above the threshold, it triggers the input of an integrated circuit, which turns on both the buzzer and LED. The buzzer beeps and the LED lights intermittently at a rate of two beeps/flashes per second when high voltage is detected. The self-test diagnostic is performed by simultaneously pressing both buttons on the front panel. The battery monitoring is always ON. The buzzer beeps every five seconds when the battery is low. The rugged pocket sized case has a built-in clip to attach to outer clothing or a belt.

Part No.	Model	Description	Price
425-059	44SVD	Personal Voltage Safety Detector	\$295.00

EXTECH
INSTRUMENTS

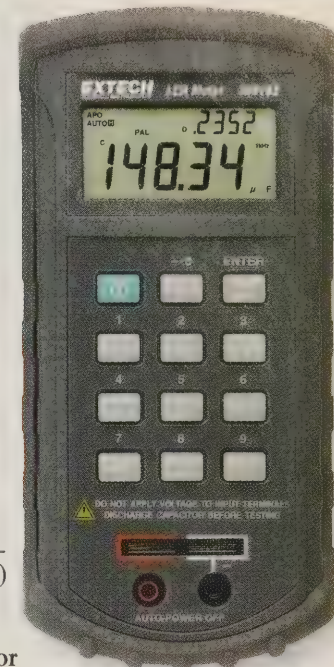
New

LCR Meter with Built-in RS-232 Interface

- Simultaneous 20,000/10,000 count display of the primary parameter (L, C or R) with the secondary parameter of Q (quality), D (dissipation) or R (resistance)
- 120Hz and 1KHz test frequencies
- Hi/Lo limits using absolute values or percentage limits
- Selectable parallel or series equivalent circuit
- Relative mode with zero reference or user supplied reference
- Optional Windows™ software and cable

4-1/2 digit meter measures capacitance from 2000pF to 10mF (0.7% accuracy), resistance from 20Ω to 10MΩ (0.5% accuracy) and inductance from 2000μH to 10000H (0.7% accuracy). Q, D or R measurement will be simultaneously shown on the secondary display. Additional features include: 120Hz and 1KHz frequencies, Hi/Lo limits using absolute values or percentage limits, selectable parallel or serial equivalent circuit, min/max/avg recording and a built-in RS-232 port for use with optional software and cable (Part No. 419-811). Operates on 9V battery (included) or optional AC adapter (402-758), measures 7.56" x 3.58" x 2.1" and weighs 12.8 oz. Comes complete with manual, test leads, alligator clips and protective holster. 1-year warranty.

Part No.	Model	Description	Price
417-620	380193	LCR Meter	\$179.00
419-811	SW193	Software and Cable	\$29.00
402-758	153117	117VAC Adapter	\$25.00



New





New

HIOKI

2D Thermo Imaging HiTester by Hioki

Instantaneous Measurement of Temperature Distribution

- Instantaneous measurement
- Data stored on flash card
- Video capability allows video recordings of temperature changes
- Can be used in data logging mode
- Lightweight ■ Affordable

Utilizing the world's first 64-element thermopile array sensor, you can record and display temperature measurements in 64 on-screen boxes, with a high-speed response of 0.2 seconds. This advanced functionality makes measuring temperature distribution as easy as using a digital camera, and extends the applications for temperature measurement practically without limit.

The 3460 also comes with a CMOS camera, which can simultaneously display a temperature image and an optical image on the same screen. Temperature data can be recorded and accumulated along with image data on the convenient compact flash card. Data can be easily viewed and edited on a PC using a card adapter (not included) without any other software.

TFT liquid crystal screen measures 3.8 inches and has a measurement range of -50 to 1000°C.

Unit measures 167 x 55 x 123 mm, weighs 700 grams, and includes 6 LR6 (AA) alkaline batteries, shoulder strap, compact flash card (16 MB) and users guide.

Part No.	Model	Description	Price
425-056	3460-01	2D Thermo Imaging HiTester	\$3,521.00

Hioki is a registered trademark of Hioki Electric Co., Ltd. All other trademarks are the property of their respective owners.



New

MENDA

Low Resistance Tester

- Verify electrical connection of less than 0.1 ohms
- Quickly test that connections are high quality and not compromised
- Audible signal and LED illumination
- Easily calibrated
- Low battery indicator
- Operates on 2 standard AA batteries; NiCad's can also be used
- Made in America

Part No.	Model	Description	Price
424-280	35105	Low Resistance Tester	\$135.10
473-002	EN91	AA Alkaline Battery	\$0.94



New

AEMC[®]

INSTRUMENTS

Non-Contact High Voltage Detectors

- Wide range of detection: 80V to 275kV
- Switch-selectable voltage sensitivity ranges
- Lightweight, minimizes sway at the end of long hot sticks
- Audible & visual indication of live voltage
- Self-test insures that all system functions are working properly
- Automatic self-test beeps every 2 seconds (model 280HVD only)
- Digital filter rejects digital signals outside 40 to 70Hz
- Designed for use with hot sticks incorporating a universal spline adapter

Both models come complete with a padded carrying case, 3 C-cell batteries and users manual.

Part No.	Model	Description	Price
424-378	275HVD	User Selectable High Voltage Detector	\$329.00
424-379	280HVD	Automatic Self-Test High Voltage Detector	\$359.00



ZTS Pulse Load Multi-Battery Testers™

ZTS, Inc. has been designing and manufacturing electronic test equipment since 1976. Their knowledge of battery power systems was used to develop proprietary pulse load multi-battery testers which have become recognized as the most accurate testers available. Ideal for use in manufacturing, industrial, military, service, utilities and quality assurance.



ZTS Mini Multi-Battery Tester

Tests More Than 15 Battery Types

The ZTS Mini Multi-Battery Tester (Mini-MBT) provides a comprehensive means of testing the state of charge or state of power for more than 15 battery types. The Mini-MBT's microprocessor-based design makes battery testing simple - using a fully automatic, high accuracy pulse load test. After the timed test cycle, percentage of remaining battery capacity is indicated on the LED bar display. Battery types are clearly labeled next to appropriate contacts. There are no settings, and test results are easy to understand. Its small size makes it ideal for the gadget bag, toolbox, or home utility drawer. Tests NiMH, Alkaline, and Lithium. Uses 4AAA batteries (not included).

Why a Pulse Load Test?

The Mini-MBT computes the battery's actual remaining power capacity using a 2-second pulse load test. This pulse load simulates the real power demand that batteries experience in a high drain electronic device. So battery performance is measured, not just voltage. The Mini-MBT automatically disconnects the load after two seconds, so it will not harm or drain the battery.

Part No.	Model	Description	Price
428-878	Mini-MBT	Mini Multi-Battery Tester	\$29.95
473-002	EN91	AA Alkaline Battery	\$0.94



For an expanded selection of new products visit contacteast.com or jensentools.com



ZTS Lead-Acid Multi-Battery Tester

Tests 2-Volt Up To 12-Volt Lead Acid Battery Types

The ZTS Lead Acid Multi-Battery Tester (MBT-LA) is designed for anyone working with lead acid batteries. This includes maintenance and service of security/alarm systems, UPS, emergency lighting, telecommunications, medical, and automotive. The MBT-LA provides a comprehensive means of testing the state of charge and battery condition for 2 volt, 4-volt, 6-volt, 8-volt, and 12-volt lead acid battery types. This microprocessor-controlled instrument is designed to test popular SLA (AGM, Gel) batteries using a fully automatic, high accuracy pulse load test. After the timed test cycle, percentage of remaining battery capacity is indicated on the LED bar display. Test results are easy to understand. Uses 4AA batteries (not included).

Why a Pulse Load Test?

Lead acid batteries are typically specified in applications requiring high peak currents, making battery performance very important. The MBT-LA computes the battery's actual remaining power capacity using a 5-second pulse load test. This pulse load simulates the real power demand that batteries experience during normal operation (up to 7 AMPs), so battery performance is measured, not just voltage or internal resistance. The MBT-LA automatically disconnects the load after five seconds, so it will not harm or drain the battery.

Part No.	Model	Description	Price
425-035	MBT-LA	Lead-Acid Multi-Battery Tester	\$189.00
473-002	EN91	AA Alkaline Battery	\$0.94



ZTS Multi-Battery Tester

Tests More Than 25 Battery Types

The ZTS Multi-Battery Tester (MBT-1) provides a comprehensive means of testing the state of charge or state of power for more than 25 battery types. This microprocessor-controlled instrument is designed to test popular primary (non-rechargeable) and rechargeable batteries using a fully automatic, high accuracy pulse load test. After the timed test cycle, percentage of remaining battery capacity is indicated on the LED bar display. Battery types are clearly labeled next to appropriate contacts. There are no switches or settings, and test results are easy to understand. Tests NiMH, Alkaline, Lithium, coin type and more. Uses 4AA batteries (not included).

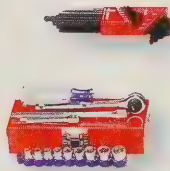
Why a Pulse Load Test?

The MBT-1 computes the battery's actual remaining power capacity using a 2-second pulse load test. This pulse load simulates the real power demand that batteries experience in a high drain electronic device. So battery performance is measured, not just voltage. The MBT-1 automatically disconnects the load after two seconds, so it will not harm or drain the battery.

Part No.	Model	Description	Price
154-001	MBT-1	Multi-Battery Tester	\$60.25
473-002	EN91	AA Alkaline Battery	\$0.94



419-641 Enhancement Kit



Pallet style(s):



Wing

JTK®-5000

Network & PC Maintenance Kit

Specifically designed for installing and maintaining networks and computers. Offers a large selection of frequently needed hand tools. Enhancement kit features cable specific tools. Case bottom is divided into three sections, two are foam-filled to protect test equipment.

Enhancement Kit includes a cable cutter, Paladin 3 blade coaxial cable stripper, Jensen 110 punch tool and crimp frame with RJ-11, RJ-45, and BNC RG-58, 59, 62 die sets. Also includes CableTracker Toner and Probe.

The JTK-5000 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 85 tools in all:

Coax cutter

Extension, driver blade, 4"
Handle, 4-1/8"

Hemostat, 6"

Hexdriver, security, 5/32" x 5"

Hex Key set, inch, 12 pc.

IC insertion tool, CMOS

Key cap puller

Knife, pocket

Lead former

Magnifier w/light, 10-power

Mirror/magnetic retriever

File set, needle, (3)

Nutdriver blade set

(7): 3/16" - 1/2"

Parts boxes (2)

Parts holder, 3-prong

Penlight w/ batteries

Phone line

Pliers (3): chain nose with
cutter, 6-3/4"; chain nose,
mini, 4-3/4"; diagonal
cutter, 4"

Pliers, locking, 5"

Probe-pic

Scissors, electrician's

Screwdriver, 2-in-1

Screwdriver,

jeweler's set, 7 pc.

Screwdriver, offset ratchet,

slot/Phillips

Screwdriver, Phillips (3):

#0 x 2-1/2", pocket clip;

#1 x 6"; #2 x 4"

Screwdriver, slotted (4):

1/4" x 4"; 1/8" x 4";

3/16" x 8"; 3/32" x 2",

pocket clip

Screwholding drivers (3):

.102" x 6"; 3/16" x 6";

9/64" x 6"

Socket set, 1/4" drive, 14 pc.

Spring tool, combination

Stripper/cutter/crimper

Stripper/cutter

Torxdrivers, security (3):

T10; T15; T20

Trimpot tool

Tweezer, Boley-Style

Wrench, adjustable, 6"

Wrist strap, grounding

Tool case with pallet

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Each
JTK-5000	Network & PC Maint. Kit	Rota-Tough™	6	17-3/4" x 14-1/2" x 8"	26	Winged	\$630.00	377-101	\$240.00
419-641	Enhancement Kit	-	-	-	5	-	\$389.00	-	-
23-472	Enhancement Pallet Only	-	-	-	2	-	\$23.00	-	-

Lifetime Warranty

on all Jensen brand hand tools

JTK®-5

Network Kit

■ Roomy case holds tools, test equipment and connectors

Contains an ideal selection of networking hand tools. Spacious case provides additional pockets for cutters, strippers, crimpers and connectors. Clear pockets and parts boxes allow easy inventory of consumables. Rugged Cordura® Plus case has four padded outside pockets for test equipment; one is 7 x 12 x 2" and two are 4.5 x 12 x 2", plus a large 16 x 12 x 2" pocket. Plenty of interior pockets for cell phone, test leads, and more. D-rings attached for optional shoulder strap.

The JTK-5 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 45 tools in the

JTK®-5:

Adapter, Modapt RJ-45/11

Extension blade, 4"

Gender changers, 25-Pin (2)

F/F; M/M

Handle, driver blades, (2):

3-1/8, 4-1/8"

Hex key set (9): 5/64-1/4"

Insertion/extraction tool

Knife

Mirror/magnetic retriever

Nutdriver blades (3), 3/16;

1/4; 5/16"

Parts boxes (3)

Penlight w/batteries

Pliers (3): chain nose with

cutter, 6-3/4"; mini chain

nose, 4-3/4"; mini diagonal

cutter, 4-1/4"

Pliers, locking, curved, 5"

Probe pic

Scissors, electrician's

strip jaw

Screwdriver blades, Phillips

(3): #0, #1, #2

Screwdriver blade, slot (3):

1/8, 1/4, 3/16"

Screwdriver, pocketclip (2):

Phillips, #0, slotted 3/32"

Tester, receptacle

Torx blades (3): T10, T15, T20

Wire stripper, 16-26 AWG

Wrench, adjustable 6"

Tool Case



Shown with
Optional Test
Equipment

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (ID) (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only Part No.	Each
JTK-5	Network Kit	Double Gray Cordura	14	16-1/2 x 12-1/2 x 5"	14	Fixed	\$345.00	216-005	\$130.00
JTK-5B	Network Kit	Double Black Cordura	14	16-1/2 x 12-1/2 x 5"	14	Fixed	\$345.00	216-500	\$130.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-

FLUKE
networks

New

OptiView™ Series II Integrated Network Analyzer

Complete Network Vision in One Power-Packed Portable Tool

- Complete network vision in seconds
- Combines 7-layer protocol analysis, active discovery, SNMP device analysis, RMON2 traffic analysis & physical layer testing into a mobile solution
- Design & user interface equally effective whether the unit is carried as a portable device or placed semi-permanently on a network link
- Web enabled remote analysis allows up to 7 users access a single unit
- Wireless, WAN, VLAN & expert analysis options available

OptiView™ Series II Integrated Network Analyzer gives you the quick network visibility you need to resolve todays network problems faster and smarter. The information rich front page gives you a comprehensive view of your network within seconds and expert functionality makes analyzing packet capture files about as easy as touching the screen. The OptiView Series II gives you SuperVision into every part of your network - including VLAN, WAN and WLAN segments.

Part No.	Description	Price
424-398	OptiView Analyzer	\$13,395.00



Test-Um Inc.

Validator™ Kit Networking/Cabling Certifier

New

Layout, Certify, Document & Archive Your Cable Installations with One Kit

- Tests to TIA568/570 interconnect standards
- Certifies CAT5, CAT5E & CAT6 cables to be IEEE compliant to one gigabit speed
- Tests coax, telephone, audio and security cables
- Creates & prints job reports
- Wiremap new or existing cable systems

Measures and presents fast and clear speed performance results up to 1 gigabit. The included powerful Plan-Um™ software ties together all the different cable criteria that are found in complex voice/data/video installations and presents concise information in printed reports, while storing data for future use. Speed certification assures your customers that the cabling will do the job as it is rated to do. Attached components, switches, hubs, routers and systems will then operate at maximum efficiency. Simply layout your customer's requirements, define cable types and runs, then test/certify each cable run. Print results or archive finished jobs for future reference. Kit comes complete with the Validator main unit and Smart Remote, 2 lithium ion rechargeable long-life batteries, 2 AC adapter/charger units, 4 adapter cable assemblies, USB cable assembly, compact flashcard, Plan-Um design layout software, deluxe carrying case with cushioned sides.

Part No.	Model	Description	Price
425-055	NT950	Validator™ Kit	\$1,195.00





New

DTX CableAnalyzer™ Series

Time is Money – the DTX CableAnalyzer Saves You Both

- Exceeds requirements for Cat5e/6/7
- 12-second Cat 6 autotest is three times faster
- Time-saving diagnostics pinpoint faults and suggest corrections
- 900 MHz future-proofs your investment - up to 10 Gigabit Ethernet, Class F and CATV
- Resident fiber modules switch between fiber and copper with the push of a button
- Fast, reliable and rugged
- 12-hour battery life and color display
- All models upgradeable to high-end performance
- Reduce total certification costs by up to 33% per year

This tester can save costs you can see in your bottom line — up to 33% reduction in certification costs per year. 12-second Cat 6 autotest and Level IV accuracy allows a Cat 6 link to be certified in one-third the time. DTX provides 900MHz of testing bandwidth, optional on-board fiber modules (See DTX Fiber Modules), clear diagnostics, 12-hour battery life, bright color display, and nearly instant set-up and reporting.

Part No.	Model	Description	Price
424-292	DTX-1800	900 MHz CableAnalyzer	\$7,695.00
425-013	DTX-1800-M	900 MHz CableAnalyzer Fiber Kit	\$10,895.00
424-293	DTX-1200	350 MHz CableAnalyzer	\$6,995.00
425-014	DTX-1200-M	350 MHz CableAnalyzer Fiber Kit	\$10,195.00

New

DTX Fiber Modules

Add Fiber Capability to DTX CableAnalyzer

- 12-second Autotest is five times faster than existing testers
- Fiber module is resident on meter
- Locate fibers, verify continuity and find near-end breaks
- Speed testing with TALK, FINDFIBER and MONITOR test features
- Deliver Tier 1 fiber certification reports by uploading results to PC
- Test more fiber in less time — save up to 100 labor hours per year.

Adds record-fast fiber certification to your DTX CableAnalyzer™. The fiber modules allow you to certify fiber attenuation, length, and polarity quickly and simply. Autotest automatically tests 2 fibers at 2 different wave lengths with length measurement and pass/fail analysis — all in 12 seconds! Find faults quickly with built-in VFL. Certify multiple fiber types with multimode and singlemode modules. SFF connector support, TALK, FINDFIBER, and MONITOR add testing power. Save over 100 hours per year!

Part No.	Model	Description	Price
424-295	DTX-MFM	Multimode Fiber Modules	\$3,745.00
424-296	DTX-SFM	Singlemode Fiber Modules	\$5,495.00
424-297	GLD-DTX-FIBERMOD	Fiber Module Gold Support	\$495.00

620 CableMeter

Upon installing a connector, you can test the connection for shorts, opens, and split pairs. No connector or loop back is required on the other end of the cable, saving time and money. Determine length and distance to fault on twisted pair cable.

Kit includes carrying case, Category 5 patch cable, female RJ-45 coupler, loop back/cable identifier #1, two AA batteries and user manual. 7.25" x 3.9" x 1.8", 12.5 oz. One year warranty.

Part No.	Description	Price
317-620	620 CableMeter Kit	\$595.00
123-892	Cable Identifiers for 620 #2-4	\$150.00
123-893	Cable Identifiers for 620 #5-8	\$200.00



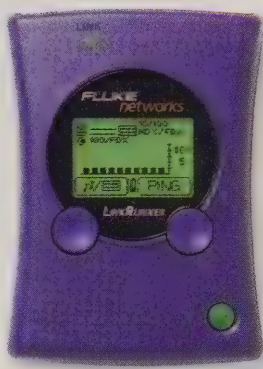
LinkRunner™ Network Multimeter

- Checks PC drops for connectivity, speed, duplex and service ID
- Determines cable configurations
- Verifies connectivity to key network resources

This easy-to-use tool helps to quickly determine if a connectivity problem is in the network or the PC NIC. It will identify 10Base-T, 100Base-TX (full or half-duplex), Token ring, Telco, Cable-ID, unpowered PC or hub, Auto-MDIX ports and Auto-Negotiation or strapped ports. The cable check will determine if the cable length is within specifications, whether it is straight or crossover and if any faults exist. Ping capabilities verify connectivity to key network resources and also shows if a PC NIC is responding. For finding unused or end of drops in use, LinkRunner can blink the hub port or PC light and also inject tone so an optional Tone Receiver can be used to locate the cable.

LinkRunner Network Multimeter includes tester, wiremap adapter, quick reference user guide and (2) AA alkaline batteries. The LinkRunner Extended Test Kit includes the tester along with all the options listed below. The Cable ID Kit contains 8 numbered plugs to help identify links by reporting plug number from the opposite cable end to LinkRunner. The Clip Set allows testing on unterminated cable. The Wiremap Adapter acts as a far end termination point for testing of the physical layer. PC Inspector is a software utility that checks the PC configuration. The IntelliTone 100 Probe is an inductive amplifier to pick up the tone injected by the LinkRunner.

Part No.	Description	Price
419-344	LinkRunner™ Network Multimeter	\$495.00
419-345	LinkRunner™ Extended Test Kit	\$875.00
419-346	Cable ID Kit (numbers 1-8)	\$159.95
419-347	RJ-45 Coupler	\$6.95
423-697	IntelliTone™ 100 Probe	\$79.00
419-352	Clip Set	\$39.95
419-353	Wiremap Adapter	\$24.95
419-354	PC Inspector	\$39.95
419-698	Custom Carrying Case	\$59.95
317-119	AA Rechargeable Battery Pack	\$15.00
414-424	Battery Charger	\$62.00



MicroScanner Pro

The Essential Verification Tester

- Flashes hub port light
- Network Identification feature identifies 10/100 Ethernet
- TDR measures cable length and distance to faults
- Test twisted pair and coax cable
- Matches cables to offices during adds, moves and changes

Whether you're an electrical contractor, a home networking professional, datacom specialist or IT/network manager, Fluke Networks family of powerful Voice/Data/Video (VDV) verification and troubleshooting tools will allow you to verify your work while delivering a quality installation.

The flagship product of the verification line is the **MicroScanner Pro**. This powerful tool is designed to prevent and solve cable and wire installation problems allowing you to confirm continuity, wiring configuration and the location of cable faults, saving you time and money at every installation.

Using the **MicroScanner Pro** for verification testing confirms that a cable meets established standards of conductor configuration and passes basic continuity testing. Verification may be performed on two conductor, or multi-conductor twisted-pair cabling. Use the wiremap test to check end-to-end continuity on all four-wire pairs to quickly verify if the cable under test has the correct wiring scheme (either 568A or 568B) and to identify any cabling problems. MicroScanner Pro quickly identifies a fault allowing you to see opens, shorts, crossed pairs, split pairs or any miswires. The TDR can also be used to inventory cable or perform job costing on installed cable.

MicroScanner Pro also features the Office/Room function, which allows you to identify cabling drops for an office or room during adds, moves and changes. It helps determine routing at the patch panel and documents twisted pair and COAX networks easily. MicroScanner Pro's Toner function allows you to use one of four unique tone songs for use with the optional IntelliTone Probe or any other analog probe to trace and locate hidden cabling in walls, ceilings or distributions panels.

MicroScanner Pro's new active network identification mode flashes hub ports, and shows you if a network tap is operating at 10Mbps or 10/100Mbps, and whether it is full or half duplex capable. It also identifies workstations by displaying PC.

The unit measures 5.5" x 3.25" x 1" and includes Wiremap Adapter (Office ID 4), Coax Adapter (CATV type, F-connector), 9-volt alkaline battery and user guide. The MicroScanner Pro VDV Cable Verification Tool Kit includes the items above plus an IntelliTone Probe, bare wire adapter, Office/Room ID kit (1-3 and 5-6), Quick Reference Guide and User CD.

Part No.	Model	Description	Price
423-698	MT-8200-24A	MicroScanner Pro VDV Kit	\$590.00
423-699	MT-8200-32A	MicroScanner Pro	\$390.00
419-337	MT-8203-17	Office/Room ID Kit	\$139.00
419-338	MT-8203-14	MicroScanner Pair Adapter	\$49.00
419-339	MT-8203-16	Bare Wire Adapter	\$19.00
419-340	MT-8203-15	MicroScanner Coax Adaptor	\$29.00
419-336	MT-8202-04	MicroScanner Pro Carrying Case	\$19.00



MicroMapper

Quickly and Easily Test Twisted Pair Cabling

- Test twisted pair cables for opens, shorts, crossed pairs, reversed pairs and split pairs
- Easy-to-read fault display
- Tone generator for tracing installed cables hidden in walls, floors and ceilings
- Remote unit enables one-person testing of installed cables

The MicroMapper quickly and easily tests twisted pair cabling, giving you visibility of opens, shorts, crossed, reversed and split pairs. Just push the TEST button and MicroMapper will automatically scan all wire pairs for any existing faults in your cable.

MicroMapper's built-in tone generator works with the IntelliTone Probe or any other analog probe, allowing you to trace cable through walls, floors, and ceilings.

The MicroMapper also includes a remote unit that allows one person to test installed cabling or patch cords.

Part No.	Model	Description	Price
424-200	MT-8200-49A	MicroMapper	\$129.00





EtherScope™ Network Assistant

New

Capture Detailed Network Information

- Wired side visibility into wireless networks
- Discover switches fast
- Identify vital network stats
- Discover VLANs to see interface status, connected host details and trending data
- Discover networks to see devices by IP subnets, NetBIOS domains and IPX networks
- Easy to use - intuitive user-interface with Linux® and bright, color touch-screen display
- One year warranty
- View data instantly
- Boost network uptime

Portable, Gigabit LAN analyzer helps network technicians and managers identify and solve problems faster - freeing up time for other projects. Better network vision allows proactive problem solving capability you need with today's evolving networks. Connect to any copper network port at full duplex 10/100/Gigabit speed. Discover VLANs to see interface status, connected host details and trending data. Discover networks to see devices by IP subnets, NetBIOS domains and IPX networks. Locate the nearest switch to see switch details and port statistics. Easy to use - intuitive user-interface easily turns network professionals into powerful problem-solvers. ES-EXT-KIT comes with battery, external battery charger, cable ID accessory and mini keyboard.

Part No.	Model	Description	Price
424-374	ES-LAN	EtherScope Network Assistant	\$5,495.00
425-607	ES-EXT-KIT	EtherScope Network Assistant Extended Test Kit	\$5,995.00
424-376	ES-Battery	Battery	\$295.00
424-377	ES-Batt-Chg	Battery Charger	\$159.00



NetTool™ Connectivity Tester

- In-line functionality reduces testing time
- Monitors network health
- Discovers PC's network configuration and resolves conflicts

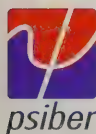
NetTool combines cable, network, and PC configuration testing in a palm-sized tool. It identifies a jack as Ethernet, Phone, Token Ring or inactive, and checks link pulse for speed, polarity, duplex, level information and receive pair. It resolves complex PC network configuration issues such as IP address, default gateway, and email and web servers, while showing key network resources used by that PC such as servers, routers and printers. Simultaneously monitors network health (frames sent, utilization, broadcasts, errors, collisions) for full-duplex connections, with individual counts for both the desktop and the network conversations. Shows protocol mismatches between the PC and the network, and identifies unwanted protocols that waste valuable bandwidth. Included is a Problem Log that concisely lists problems detected on the PC and network such as addressing issues, email and web problems.

The **NetTool** tester provides single-ended testing of cable and desktop-to-network connectivity. Shows when a network drop is hot and identifies the service and the device on the other end. Shows speed and duplex settings and checks the health of frames being sent. A must for network and PC technicians who install or troubleshoot networked PCs. Includes all the standard features and comes with the inline function that allows users to eavesdrop on the complex PC-to-hub link pulse negotiation process to help resolve link connectivity issues.

NetTool Pro users can Ping single devices or list of devices while generating PDF reports of all tests gathered. Connecting inline between a PC and Network Drop allows you to determine which devices the PC is configured to use, pinpoints configuration problems and helps quickly verify and troubleshoot desktop-to-network connectivity.

Part No.	Description	Price
419-694	NetTool Pro	\$2,045.00
414-310	NetTool	\$1,532.00
317-117	NetTool AC Power Adapter	\$26.00
414-424	NetTool 1.25 amp Battery Charger	\$62.00
317-119	AA Rechargeable Battery Pack	\$15.00





LanMaster® 30 Outlet Identifier

- Identify network or telephone connections
- Verify that no damaging voltages are present

Connecting equipment to an untested wall outlet can damage the installed device if the outlet does not have a compatible electrical interface.

Many PBX systems can supply voltage and current levels that far exceed the limits of modems or network devices resulting in equipment failure when connected. The Lanmaster 30 will identify a 10baseT Link, 100BaseTX Link, Token Ring Link, Analog Telephone Line, PBX Line or an ISDN Line. The unit will also warn the user if unidentified signals are present at the jack or if the jack is not connected. Knowing the type of connection available at an outlet not only protects against equipment damage, but also reduces time wasted troubleshooting physical layer problems. Accessory Kit includes case, in-line coupler to test NIC, and RJ11 patch cord.

Part No.	Description	Price
226-013	LanMaster 30 Outlet Identifier	\$219.00
226-012	LanMaster 25 Link Tester	\$189.00
226-010	LanMaster 20 Link Tester	\$152.00
226-014	LanMaster 30 Accessory Kit	\$19.40
226-011	LanMaster AP1	\$19.80



Pinger Plus Network IP Tester

- Identifies 10/100/1000 baseTX Link signals
- Verifies LAN connectivity by transmitting/receiving Pings at either 10TX or 100TX speeds
- Stores up to eight programmed profiles that can be Pinged individually or successively
- Verifies LAN operation at a remote location over the internet
- Provides port identification function (link light activation)
- Identifies wire pair connections with reversed polarity
- DHCP client capability verifies server is functioning and correct IP addresses are being provided
- Web browser interface for unit setup
- Alpha-numeric keyboard for easy IP address entry

The Pinger Plus is a new handheld tester used for installing and maintaining computer Local Area Networks (LANs) running the TCP/IP protocol. The Pinger Plus uses the powerful Ping function at either 10 or 100 mbps to verify connectivity, check transmitted and received data integrity, indicate network traffic loading by measuring Round Trip Time, provide the MAC address of an IP Address and warn when the default gateway can not be located. The Pinger Plus also identifies reversed polarity for improperly connected wire pairs and provides a Port Identification feature with selectable blink rates that identifies which port on a hub or switch that a wall outlet goes to.

The Pinger Plus is the first low cost tester to provide Gigabit Link testing.

The Pinger Plus is an ideal tool for quickly testing proper LAN operation after completing a Move, Add or Change (MAC). Trouble calls are easily handled by verifying Link connection and running the comprehensive Ping test. Resolve "I can not connect to the Internet" problems with the DHCP Client mode that ensures a DHCP Server is available and displays IP Address assignment. Remote office support can be provided by connecting the Pinger Plus to the LAN at the remote office trouble point and Pinging the tester over the Internet.

Part No.	Model	Description	Price
420-917	65	Pinger Plus	\$349.00



Ethernet Analyzer

A Powerful Tool for Troubleshooting and Evaluating LAN Equipment

Designed around a Palm™ handheld PDA, the unit is easy to learn and has a touchscreen interface. Also, normal Palm handheld functions are available while the Palm is attached to the Ethernet Analyzer base unit.

The Ethernet Analyzer can be used by network engineers to perform network analysis and capacity planning or by network service and installation professionals to determine faulty NIC's, wiring or network switching equipment. The following functionality is standard:

Packet Capture- Captures packets based on addresses or error conditions and displays related hex data with decoded addresses and protocol types.

Packet Generation- Error packets (bad, CRC, short/runt, long/jabber/overflow) and test packets to simulate network load levels.

Statistics Displayed- Network utilization, packets, bytes and broadcasts, network packet errors (runt, long, bad, CRC and align) and protocol statistics (ARP, RARP, IP, ICMP, UDP, TCP, Eth, Other)

DHCP (Dynamic Host Configuration Protocol) Discovery- Test DHCP operation, obtain a network IP address and display network DHCP settings.

Ping and ARP- Verify connection to target device, respond to other network device's ICMP ECHO requests, and test, receive and transmit operation of PC NIC.

New



Port Auto-Negotiation Test- 10Base-T and 100Base-TX, half and full duplex

The unit measures 7" x 3.5" x 2.5" and comes complete with Palm™ m130 handheld PDA, Cat 5 crossover cable, Cat 5 patch cable, AC/DC adapter, user's manual (CD-ROM), 4 AA NiMH batteries and one-hour rapid charger and a soft carry case. 1 year warranty.

Part No.	Model	Description	Price
424-274	SMTRX-019	Ethernet Analyzer	\$904.00

Paladin Tools

Datal/Link ID & Cable-Check™

Multi-Purpose Tester at an Affordable Price

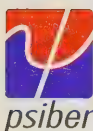
- Identifies cross-over
- 2 scan speeds: slow or fast
- Low battery detection on LAN ID tester
- 9 V battery included
- 2 RJ45 shielded patch cords included
- Contained in a durable nylon carrying case w/belt loop

This unit is a multi-purpose continuity tester and network identifier. Continuity tester for UTP, STP and flat satin cables with RJ45 terminations. Tests both data and telephone connection schemes including patch cords and installed cables to identify: good connections, opens, shorts, cross-connections. Identifies data and link transmissions speeds with real time detection - 100MB & 10MB. Detects the following: PC (NIC) and HUB data transmissions, PC (NIC) and HUB NLP or FLP link pulse.

Part No.	Model	Description	Price
424-396	1576	Data/Link ID & Cable-Check	\$55.53



New



LanMaster 26 Pro Link Tester

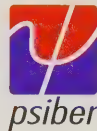
New

The Most Advanced Link Tester Available

- Verifies Connectivity for 10/100/1000 BaseTX Links
- Identifies VoIP (Voice over IP) and PoE (Power over Ethernet) Ports
- Measures Port Voltage to Ensure Proper Voltage Level and warns of low voltage levels
- Identifies Speed, Duplex Mode and Auto-negotiation for 10/100/1000/VoIP/PoE Ports
- Provides Port Identification Function (Link Light Activation)
- Identifies Connection as LAN, NIC or Auto Crossover

The new LanMaster 26 features gigabit over copper link testing capability and VoIP/PoE detection. The Model 26 even measures the voltage supplied by the VoIP or PoE port with typical loading to ensure that the voltage level is adequate. After verifying correct power is available, the LanMaster 26 tests a VoIP or PoE port to determine the speed and duplex mode. The Port ID feature identifies which port on a hub or switch that a wall outlet is connected to by flashing the Link light on the connected port. The LanMaster 26 provides critical network connectivity and configuration information needed to maintain and troubleshoot a LAN at an affordable price. Unit measures 8.5" x 1.5" x 1.5", weighs 1 lb., and ships complete with 9V battery, RJ-45 coupler, and user guide.

Part No.	Model	Description	Price
424-259	LM26	LanMaster 26 Pro Link Tester	\$199.00



CableTracker Network Tone & Probe Kit

New

- Tests both active & inactive cables
- Port ID function blinks the link light to identify connected hub or switch port
- User selectable blink rates for compatibility with widest range of LAN equipment

The CableTracker Network Tone and Probe Kit is designed for network managers and technicians. Toning an active LAN circuit can disrupt network traffic and is difficult to track due to cable twist and tone bleed. The CableTracker Kit features a Port ID function that blinks the link light verifying cable connectivity and provides a simple method of identifying switch or hub port assignments on active networks. Three different blink rates are provided to ensure compatibility with equipment from a wide range of manufacturers. Traditional toning with two different tone frequencies and patterns is provided for non-active tracing.

The CableTracker Network Toner Model CT10 has a female RJ-45 connector for easy network connection as well as alligator clips for connecting to a punch down block or terminated cables. Auto power down extends battery life and a built-in low battery indicator warns when battery replacement is required. The CableTracker Network Probe Model CT15 includes volume control, non-conductive plastic tip and complete compatibility with existing toners. Kit includes carrying case.

Part No.	Description	Vendor Part Number	Price
419-758	CableTracker Network Tone & Probe Kit	CTK1015	\$121.40
419-759	CableTracker Network Toner	CT10	\$50.00
419-760	CableTracker Network Probe	CT15	\$70.40



For replacement batteries, see page 437



JENSEN®

LanRover Cat5 Cable Tester

- Tests for opens, shorts, reversals, miswires and split pairs
- Test results displayed on both main and remote

When a connection from the main unit to the remote is sensed, testing begins automatically. The LED for each pair will either be ON, OFF or Flashing on both the main unit and remote. ON LED indicates a good pair, OFF LED indicates an open pair and a FLASHING LED indicates a bad pair. If a pair is bad, one or more of the fault LEDs will be flashing to indicate the type of fault. Holding down the tone button enters the debug mode. The pairs are stepped through one at a time to display connection and fault information on a pair by pair basis. A quick press of the tone button will induce a tone on all pairs. Tests both STP and UTP cables and comes with patch cables and pouch. Adapter for testing coaxial cables is available.



- Full alphanumeric LCD display
- Length measurement capability

A Cat5 cable tester that will test for shorts, opens, miswires, reversals and split pairs errors. The 2 line by 16-character alphanumeric LCD with icons and four control buttons provides the results in a very easy to read and user friendly display. The cable test results are displayed in wire map form, with remote ID and pass/fail indication. Eight unique remotes are included for mapping while testing. A Pre-Test allows one-ended testing for shorts, opens and split-pairs and the Pro will automatically go into cable test mode when a remote is sensed. Length measurement mode determines the average length of all pairs or the length of each individual pair can also be displayed. Cable parameters can be adjusted by NVP value or by a known length of cable. A tone generator is also included. In this mode, individual pairs or wires can be selected to carry a tone. Single and warble tones may be selected. Kit includes tester, (8) remotes, coax adapter, patch cables and case. Security & Alarm Adapter kit includes (10) RJ45 to dual alligator clip adapters, banjo adapter and case.

Part No.	Description	Price
191-423	LanRover Pro Cat5 Cable Tester Kit	\$269.95
419-341	LanRover Pro Cat5 Cable Tester Only	\$164.20
419-342	Security & Alarm System Adapter Kit	\$36.70

JENSEN®

RJ Jack Identifier

- Detects 10Base-T, Token Ring & 100MBIT
- Detects AC & DC voltage on phone lines

The RJ Jack Identifier is designed to aid network technicians and MIS personnel in the identification of the equipment connected to the modular jacks found throughout the work place. It will aid in determining what type of equipment is connected to the other end of the wall plate or cable by being able to detect cable terminators on all 4 pairs of a T568A/B wired jack or plug, and by being able to detect voltage on the center pair of phone lines.



Part No.	Description	Price
191-311	RJ Jack Identifier	\$33.60



New

WireMaster XR-5

- Tests 5 types of cable (RJ-45, RJ-11, BNC, 1394, USB)
- Simple one button test
- Tests installed wiring or patch cables
- Remote attaches to main unit
- 600 ft test distance (RJ-45, RJ-11, BNC)
- LEDs indicate connections and faults
- Beeper provides audible test results
- Tests shields in 1394 and USB cables
- Test shielded (STP) or unshielded (UTP) LAN cables

The WireMaster XR-5 checks for continuity, miswiring, opens, shorts, crossover and grounding. Ships complete with detachable remote, BNC terminator, RJ-45, RJ-11, and BNC jumper cables, padded Cordura carry case, 9-volt battery and instruction manual. One year warranty.



Part No.	Model	Description	Price
424-250	3260	WireMaster XR-5	\$119.00



FLUKE
networks

IntelliTone™ Toner and Probe Series

Finds The Cables Others Can't

- Reduce lost time finding difficult cables
- Toner generates all locating modes at all times
- Probe knob selects appropriate mode for situation
- Cable map checks miswires, opens, shorts
- Save \$ by using one kit for multiple cable types

Fluke has applied their cable testing expertise to create IntelliTone technology—a smart digital signal-toning and signal-interpreting process that rapidly and precisely zeroes in on even the most elusive cables.

Simply attach the IntelliTone Toner to a cable and set the sensing mode on the IntelliTone Probe. IntelliTone technology energizes cable conductors with a smart, synchronized digital signal. Multiple tone types occur in the signal that help the user to:

- LOCATE a cable from a distance using maximum signal strength
- ISOLATE a cable from a bundle using a signal with minimal strength
- VALIDATE cable conductor continuity with an automated signal that steps through each conductor.

The IntelliTone Probe's signal selection thumbwheel lets the user choose which tone type to use. Controlled LED signal indicators and audio tones simplify signal interpretation and take the guesswork out of cable location, reducing even the toughest locating problems into a few minutes' work.

New



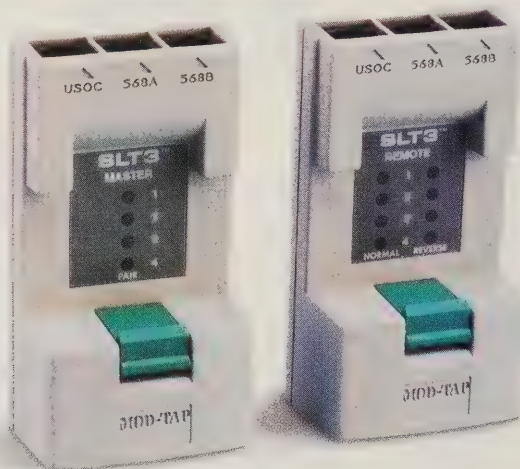
Part No.	Model	Description	Price
424-244	MT-8200-60A	IntelliTone™ 200 Kit	\$189.00
423-695	MT-8200-50A	IntelliTone™ 100 Kit	\$139.00
424-245	MT-8200-61A	IntelliTone™ 200 Toner	\$109.00
423-696	MT-8200-51A	IntelliTone™ 100 Toner	\$79.00
424-246	MT-8200-63A	IntelliTone™ 200 Probe	\$99.00
423-697	MT-8200-53A	IntelliTone™ 100 Probe	\$79.00
424-247	MT-8202-05	IntelliTone™ Case	\$19.00
424-248	MT-8203-20	IntelliTone™ Test Leads w/ Bed of Nails	\$18.00
424-249	MT-8203-22	IntelliTone™ Test Leads w/ Alligator Clips	\$10.00

SLT-3 Modular Cable Tester

- Our most popular tester
- Two pieces for installed testing

Unique snap-together two piece design allows for testing installed cables easily. The Master unit applies a test voltage to pairs of either 568A, 568B or USOC 4 pair cables. The Remote unit then displays the corresponding green (straight through) or red (crossed over) results on its LEDs. No lights indicate open pair. 9V battery included. One year warranty.

Part No.	Description	Price
178-300	SLT-3 Modular Cable Tester	\$103.50
23-605	Case for JTM-30 Series Meters/SLT-3	\$15.30



Smartronix



Ethernet Loopback Jack

Simple Cable Tester on a Key Chain!

- Check cables for broken or shorted wires
- Check wall jack to network switch connections

Not much bigger than an Ethernet connector, the Loopback Jack can be easily attached to key chain, back pack or tool bag. This device can be used with a switch/hub to check a cable's RX/TX pairs. LED indicator is on for "good", off for broken or shorted wires.

When used in conjunction with the Smartronix Ethernet Analyzer (424-274), the Loopback Jack permits more complete testing of cables and devices.

Part No.	Model	Description	Price
424-276	SMTRX-034	Ethernet Loopback Jack	\$6.00

For replacement batteries, see page 437



Independent Technologies Test-All IV

- Four pair testing
- Switch selectable pair and test function
- Line voltage, pair continuity, audio tone injections
- Adapters for 66, 110, and Bix included

Reliable functions for multi-wire system testing. Each pair (USOC configured) has tri-color LED indication for AC/DC line voltage and continuity. Separate pairs can be injected with warble tone for ID tracing. Remote shorting adapter aids in one man testing of continuity, miswires and reversals. Contains adapters for direct block connection, RJ-45 test jumpers (one each long, short, and with alligator clips), 9V battery, carrying case and operation manual. One year manufacturer's warranty.



Part No.	Description	Price
123-709	Test-All IV Cable Tester	\$262.70



STM-8 Handheld Tester

- Test T568A, T568B, USOC, 10Base-T, Token-ring and TP-PMD

Capable of testing up to 2,950' of 1-, 2-, 3- or 4-pair cable for opens, shorts, reversals, miswires and cross-twists. One person can quickly test and identify up to four different cables at one time. Generates tone on any pin and provides talk battery on the center two pins.

The presence of line voltage is indicated on the display to prevent accidental damage to the unit. A low battery indicator is provided, as well as automatic shut-off to preserve the battery. **Optional remote plugs** allow multiple channel testing.

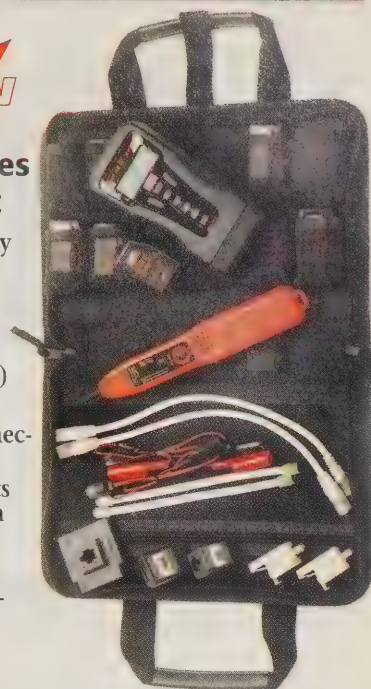
STM-8 Kit consists of a handheld master unit, remote plug "A", in-line coupler, modular cord, wiring reference guide, 9V alkaline battery and padded nylon carrying case.

Part No.	Description	Price
124-158	STM-8 Handheld Modular Test Kit	\$230.00
400-458	Optional Remote Plugs ("B", "C", "D")	\$57.40

New

Independent Technologies Test-All IV Networker Kit

- ID speed/capabilities and activity of network drops
- Verify speed of terminated unconnected cable runs
- Identify port service (POTS, Ethernet, ISDN, Token Ring, etc.)
- Ping network devices
- Test cabling configuration, connectivity, length and integrity
- Automatically access DHCP hosts and obtain network information
- Identify HUBS, NICS or auto MDI/MDI-X devices
- Reports "Phantom Power" conditions per IEEE 802.3af
- Multiple tones levels for signal tracing



Networker™ is the first network management device to combine the capabilities of a world-class cable tester with advanced abilities to monitor and correct network problems connected with physical layer and link conditions.

As a physical layer network management device, Networker combines the functions of a high-end cable tester and length measurement device with the capability to monitor and correct network problems related to the physical layer and link conditions of the network.

The Networker Kit contains adapters, cables, remote identifiers, and tone tracing equipment necessary for any network evaluation application. This kit is truly affordable for all network technicians and IT professionals...a must-have tool for keeping networks performing efficiently.

Requires two 9V batteries (included).

Part No.	Model	Description	Price
424-281	ITC3600	Networker Kit	\$549.00



Test-Um Inc. Residential Cable Tester

Resi-Tester™ (TP300) is the first identifier and verification tester designed exclusively for all the wiring environments found in Home Networking and Home Automation. CATV, telephone systems, audio cable, security/alarm wiring, and network cabling can all be tested and located using the Resi-Tester™ and optional room identifier sets. Multiple input ports and included adapter cables mean any wire can be attached and tested! Results are displayed using a large easy to read LCD with concise information showing all the faults with the various cable types. It warns of voltage on lines and shows a Pass or Fail message after each test.

The built-in tone generator sends a signal down installed wires, so that they can be traced in the walls and their exact terminus identified. The built-in remote will identify individual outlets whether they are phone, cable or data network. Using the optional multi-identifier sets, the user can verify connections on up to 10 coax outlets and 8 paired cables simultaneously for wire-mapping the largest jobs easily and efficiently.



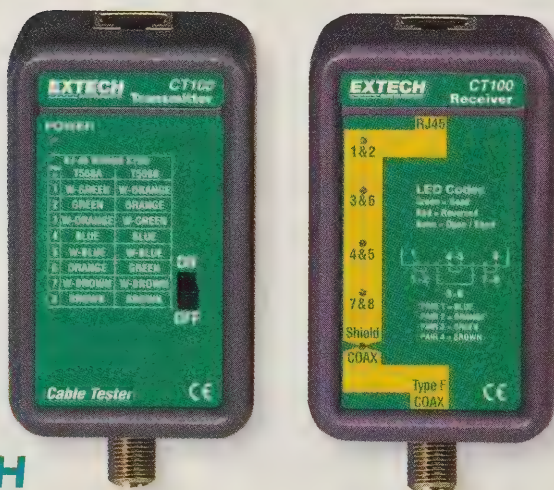
Part No.	Model	Description	Price
422-466	TP300	Resi-Tester	\$99.95



Pocket Sized Cable Tester

D200 tests 10Base-T, T568 or USOC telecom cables with RJ45 connector types. Bi-color leds monitor all four pairs and indicate if correctly wired, reversed, open or shorted.

Part No.	Model	Description	Price
567-201	D200	10Base-T/T568/USOC Cable Tester	\$79.95



New

EXTECH
INSTRUMENTS

Network Cable Tester

Continuity Tester for Twisted Pair Cables & F-Type Coaxial Cables

- F connector for troubleshooting CATV coaxial installations
- Test cable lengths from 3 to 600 ft.
- Tests shielded or unshielded twisted pair cable
- Tests EIA/TIA568A & 568B & 10Base-T

Automatically checks continuity, open/short circuits, and wire crosses on CAT 3, CAT 4, CAT 5 & CAT 5e cables from 3 to 600 ft. in length. Comes complete with 2, AAA batteries. Dimensions: 3.25" x 2" x 1.25" and weighs 3.6 oz.

Applications: testing home networks, troubleshooting installed cable plants, testing CCTV cabling, testing and troubleshooting patch cables.

Part No.	Model	Description	Price
424-397	CT100	Network Cable Tester	\$30.00



Clamp-On Ground Resistance Tester

- Measure Down to 0.01 ohm
- Fast Setting Time (approx. 1 sec.)
- High Immunity to Electrical Noise
- Extended Battery Life Over 1000 Tests
- Rugged Jaw Withstands Heavy Outdoor Usage
- Smooth Jaw Mating Surfaces Easily Cleaned

Measures ground rod and small grid resistance without the need of auxiliary ground rods. Clamp around the ground conductor and measure the resistance to ground. Fits rods up to 1000 MCM typical in telecommunications. Includes carry case and calibration loop.



Part No.	Model	Description	Price
464-002	3711	Clamp-On Ground Resistance Tester	\$1,995.04
464-003	3731	Clamp-On Ground Resistance Tester	\$2,195.00



New

Serial Analyzer

Transparent Troubleshooting and Emulation of Serial Interfaces

- True analysis of an asynchronous serial link
- Serial link passes through base unit without retransmission distortion or delay
- Captures and stores full duplex data from DTE and DCE ports
- Identifies line driver problems
- Captured data stored with time tags, error status and handshake line states
- Allows a PC to emulate one serial device while capturing the transaction
- Requires only one USB or COM port to troubleshoot full duplex link



The SMTRX-026 Serial Analyzer is a very informative, yet simple device to monitor, evaluate, and measure asynchronous serial links. Captured data is stored with precise time-tags, error status, and handshake lines states to troubleshoot a full duplex link. The device allows the host PC to mimic a serial device while capturing the data transaction, stores the full duplex data from DTE and DCE ports, and allows the serial link to pass straight through the base unit without retransmission, distortion, or delay. The unit also measures serial transceiver voltages to indicate line driver problems.

The unit can be connected preferably by USB or by standard COM port to a host computer. Windows® software is provided to control the base unit, download and analyze captured data, and to emulate serial device operation. The captured data can then be exported to tools such as Word or Excel. All cables and adaptors are included to connect to standard 9 and 25 pin DTE/DCE devices.

Part No.	Model	Description	Price
425-030	SMTRX-026	Serial Analyzer	\$699.00



Paladin Tools

LAN ProNavigator™

- Tests data, telephone and BNC connected cables
- Built-in tone generator

Portable two-piece tester that will test UTP and STP data cable for opens, shorts, crossed wires and split pairs for EIA/TIA-568A, 568B, Token Ring, 10BaseT and USOC. It will also test BNC connected 50 and 75 ohm coax cable for continuity. Pass/Fail test gives results in one second, which allows technicians to quickly move on to the next test site. Fault Check will provide the full test that indicates the type of fault and which pair(s).

It also provides a tone generator that can be picked up with any tone probe. Comes with belt clip and lanyard holes embedded in case to attach to belt or wrist. Auto-off function to preserve battery life. 9V battery not included. **LAN ProNavigator Test Set** includes main and remote units, (2) RJ45 patch cords, (2) BNC coaxial cables, (2) CATV "F"-to-BNC adapters, (1) BNC/BNC adapter, (1) shielded RJ45 coupler and (2) belt clips in a durable case.

Part No. Description Price
412-271 LAN ProNavigator \$122.35
497-008 LAN ProNavigator Test Set \$188.65
473-005 9V Battery \$2.85



Megger

TDR900 Time Domain Reflectometer

- Full autoranging for measuring the length of power, telephony, CATV and LAN cables
- Extra large, high resolution backlit LCD
- Automatic output impedance control
- User-friendly menu on screen operation
- Cable length calibration function
- Internal library of 39 standard cable types
- 20 Internal memory locations for custom cable types
- Tone generator for cable identification and tracing
- Line voltage detection (stops operation if line exceeds 6.5v)
- Safety protection up to 250V

The Megger TDR900 is an advanced instrument capable of measuring cable lengths and finding distance to an open or a short using Time Domain Reflectometry. It offers exceptional features and a range capability normally associated with far more expensive instruments. The measurement range spans from 15 to 10,000 feet, with a minimum resolution of 20 inches.

The TDR900 can be used for any cable consisting of at least two insulated metallic elements, one of which may be the shield for the cable. The meter can be closely matched to the cable under test using the menu selection keys. The propagation velocity can be similarly adjusted to match the test cable, thus ensuring an accurate distance measurement.

The meter is housed in a rugged ABS enclosure which is dust and weather-proof to IP 42. The unit ships complete with a soft carrying case and an alligator clip adapter. It is powered by 4 AA batteries (included), which are stored in a compartment in the back of the meter.

Part No.	Model	Description	Price
420-905	TDR900	Time Domain Reflectometer	\$350.00



LANTEK Cable Testers

- Cat 6 & 7 testers up to 750 MHz
- Full ISO Auto Test with graphs in under 35 seconds
- Advanced link adapter provides versatility
- Built in TDR ready for copper and fiber
- Fiber test accessory ■ VGA color display screen
- Context sensitive Help ■ Serial and USB ports
- Two full function PCMCIA slots

LANTEK 7 is the first LAN cable tester capable of certifying installations up to 750 MHz, exceeding draft Category 7/ISO specifications. LANTEK 6 is a fully compliant Category 6/ISO E cable tester with a frequency range up to 350 MHz. Plus LANTEK 6 is fully upgradable to LANTEK 7 as your needs evolve. The advanced link adapter locks into place within the unit's case, creating a stable and repeatable testing platform, while eliminating bulky adaptors which extend beyond the unit. By plugging in the appropriate reference patch cord, Cat 6 or 7 permanent link testing can be performed. Should the plug ever wear out, the patch cord may be replaced, rather than the entire assembly, reducing cost of ownership.

Both units contain an advanced TDR that is ready for both fiber and copper. The TDR capability is especially useful for re-certification of cables or troubleshooting after problems have been reported.

The LANTEK units have been designed to be rugged as well as easy to use. Both include a backlit, quarter VGA color screen on the display unit, and a two-line black and white screen on the remote unit. The combination of an advanced user interface and functions in the keyboard redefine ease-of-use.

Among the LANTEKs' accessories is the industry's most advanced fiber option, FIBERTEK. FIBERTEK enables loss, length, bi-directional testing over two fibers, and talkset over fiber capabilities for 850 and 1300 nm Multimode and 1310 and 1550 nm Singlemode fiber.

Both units come standard with all the items necessary to certify your job and create certification reports, including: Soft carry case, display unit with battery, remote unit with battery, LANTEK Reporter software, Serial and USB cables, two AC wall adapters, two talksets, user manual quick start guide, two Category 7 channel adapters (LANTEK 7 only), two Category 6 channel adapters (both), two Cat 7 Reference patch cords (LANTEK 7 only), and two Cat 6 Reference patch cords (both).

Part No.	Model	Description	Price
423-631	LANTEK 6	LAN Cable Certifier	\$7,360.00
423-632	LANTEK 7	LAN Cable Certifier	\$8,590.00
423-633	FIBERTEKMMB	Multimode Fibertest Option	\$2,450.00
423-634	FIBERTEKSMB	Singlemode Fibertest Option	\$5,520.00

PROGRESSIVE ELECTRONICS

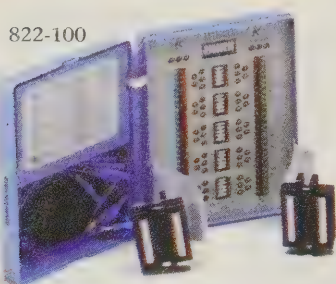
468 Modular Cable Tester

- Tests 258, T568A, T568B, 10BaseT, and USOC
- Built-in tone generator

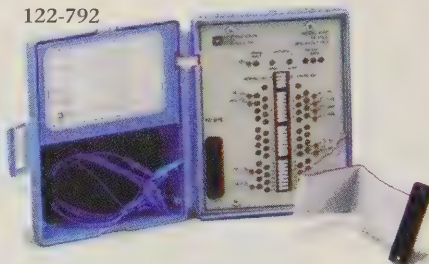
Designed to test cables terminated with RJ-45 plugs. It cycles through each pair combination continuously and will identify opens, shorts, reversals, and transposed pairs. Tester will even alert the user if it's connected to an active circuit without harming the unit. A tone is placed on each pair and can be picked up at the far end of cable with any inductive amplifier. Battery sold separately.

Part No.	Description	Price
180-232	468 Modular Cable Tester	\$120.75
473-005	9V Battery	\$2.85





822-100



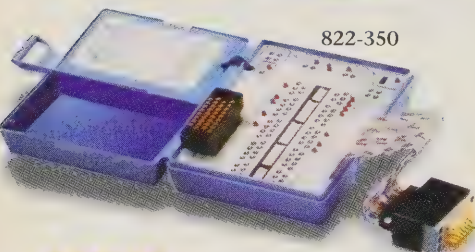
122-792



822-061



822-066



822-350



822-049



822-530



Breakout Boxes

Factory Lifetime Warranty

Model 100 has no-guesswork display. Two colors differentiate high or low signal. Switches for forcing CTS, DCD, RTS, DTR on and crossing RD with TD. Includes remote cable test adapter. Operates on two 9V batteries included.

Model 62BP has twin LEDs for the most common lines and a spare pair for monitoring any other. TD and RD crossover, and a pulse trap to capture fast glitches. Operates on two 9V batteries included.

Model 61 uses dual-color LEDs to monitor 12 common lines, full breakout supplied. Operates on four AA batteries included.

Model 60 is the original Blue Box. IDS' low cost breakout box with basic line monitoring. Operates on two AA batteries included.

Models V.35, RS-449 and EIA 530 have dual LEDs for line monitoring up to 3Mbps speeds and breaks out the interface. Pulse traps grab fast pulses. Test voltages force signals high or low and two loads provide network termination. Operates on two 9V batteries included.

Part No.	Description	Price
822-100	Model 100 Breakout Box	\$265.00
122-792	Model 62BP Breakout Box	\$190.60
822-061	Model 61 Breakout Box	\$188.70
822-066	Model 60 Breakout Box	\$117.30
822-350	Model V.35 Breakout Box	\$637.50
822-049	Model RS-449 Breakout Box	\$433.50
822-530	Model EIA 530 Breakout Box	\$450.00

For replacement batteries, see page 437



Model 76B BERT

An all purpose BERT for testing async and sync Wide Area Networks running at data rates from 10 bps to 10 Mbps including T1, E1, Fractional T1, and Fractional E1. Choose between six async and eight sync parameters such as Bit Error Rate, Block Error Rate, Error Free Seconds and Bipolar Errors. The 76B will also count bipolar violations, framing errors, CRC errors and the number of times synchronization has been lost. Interchangeable interface modules are available and allow you the flexibility to connect to a wide variety of systems. Cables included with modules. AC powered. Three year warranty.

Part No.	Description	Price
822-076	Model 76B BERT Base Unit	\$1,730.00
822-035	Model V.35 Module	\$555.90
822-449	Model RS-449, -422, -423 Module	\$453.90
822-232	Model RS-232 Module	\$453.90
822-302	Model T1/Fractional T1 Module	\$1,065.00
822-001	Model T1/Fractional T1 with Drop and Insert	\$1,595.04
822-002	Model E1/Fractional E1 Module	\$1,295.03

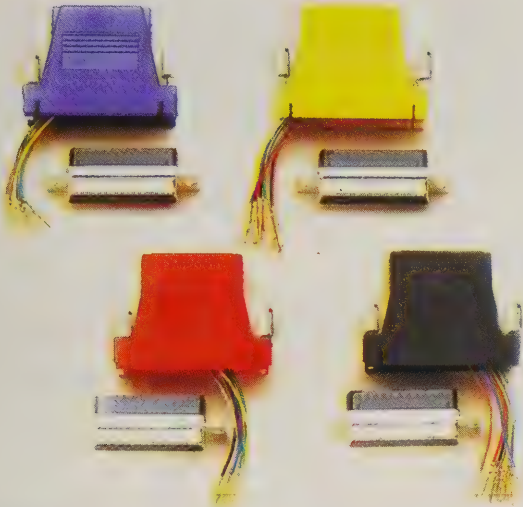


Quick Test RS232LM

This compact tool consists of 24 green and 24 red bright LEDs that shows the state of all lines at a glance. It connects to both DB25 and DB9 interfaces. The face plate gives a complete description of all signals with their pin numbers and explains the DB25/9 conversion. The pole adapters allows you to test DB25 or DB9 communication, or to convert between them. Includes user manual and pouch.

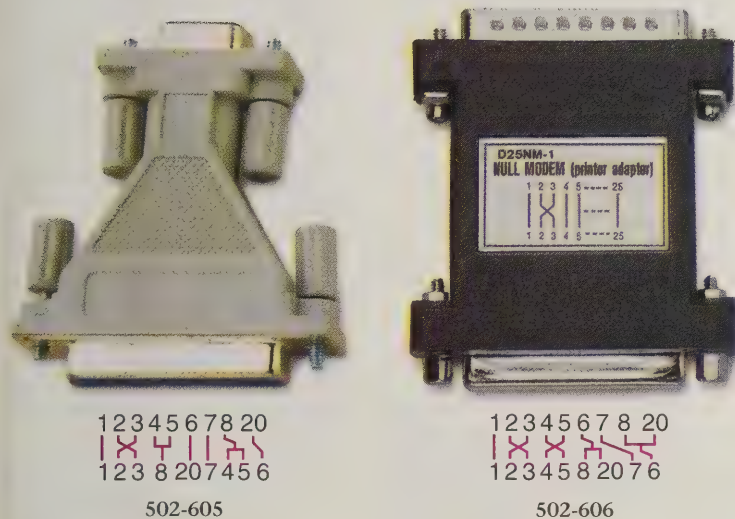
Part No.	Description	Price
419-311	Quick Test RS232LM	\$70.40





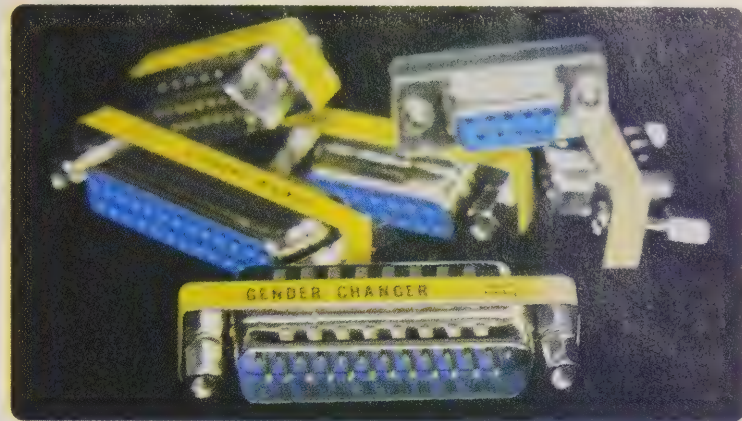
Modular to RS-232 Adapters

Part No.	Description	Price
780-280	DB-9F to RJ-11, Black	\$5.85
780-300	DB-25M to RJ-11, Black	\$5.85
780-270	DB-9F to RJ-45, Black	\$5.85
780-275	DB-9M to RJ-45, Black	\$5.85
780-285	DB-25F to RJ-45, Black	\$5.85
780-290	DB-25M to RJ-45, Black	\$5.85
780-552	DB-25F to RJ-45, Blue	\$5.85
780-560	DB-25M to RJ-45, Blue	\$5.85
780-550	DB-25M to RJ-45, Red	\$5.85
780-561	DB-25M to RJ-45, Green	\$5.85
780-562	DB-25M to RJ-45, Yellow	\$5.85



Serial Adapters and Null-Modems

Part No.	Description	Price
502-600	DB-9F to DB-25F	\$5.36
502-601	DB-9M to DB-25F	\$5.36
502-602	DB-9F to DB-25M	\$5.36
502-603	DB-9M to DB-25M	\$5.36
502-605	Null-Modem, Standard	\$5.37
502-606	Null-Modem, Full Handshake	\$5.37



Gender Changers

- Slim design, fully shielded
- Male-to-female models save connector from wear

Part No.	Description	Price
502-320	D-37 F to F	\$10.20
502-237	D-37 M to M	\$10.20
502-265	D-25 F to F	\$6.10
502-250	D-25 M to M	\$6.10
502-215	D-15 F to F	\$6.10
502-255	D-15 M to M	\$6.10
502-900	D-9 F to F	\$5.35
502-290	D-9 M to M	\$5.35
502-737	D-25 M to F Connector Saver	\$8.15
502-736	D-9 M to F Connector Saver	\$7.65



Cable Assemblies

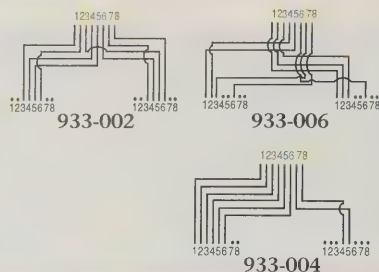
- Molded, shielded, fully wired straight through

Serial Extension

Part No.	Description	Length	Price
502-719	D-25m-to-D-9f	25'	\$15.24
502-718	D-25m-to-D-9f	10'	\$8.22
502-371	D-25m-to-D-9f	6'	\$6.96
502-717	D-9m-to-D-9f	25'	\$15.53
502-716	D-9m-to-D-9f	10'	\$7.64
502-715	D-9m-to-D-9f	6'	\$6.28

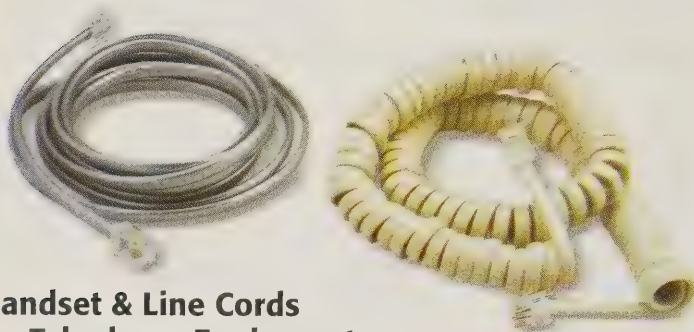
Printer or Serial

Part No.	Description	Length	Price
502-365	D-25m-to-D-25f	25'	\$23.40
502-368	D-25m-to-D-25f	10'	\$11.67
502-370	D-25m-to-D-25f	6'	\$9.67
502-367	D-25m-to-D-25m	10'	\$11.67
502-369	D-25m-to-D-25m	6'	\$9.67



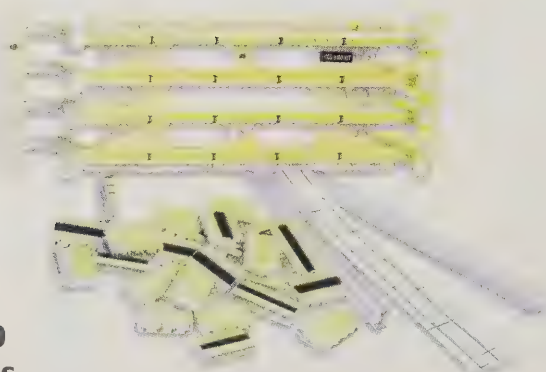
Modular Splitters

Part No.	Description	Price
933-002	Modular Splitter	\$10.94
933-004	Modular Splitter	\$10.94
933-006	Modular Splitter	\$10.94
780-700	RJ-45 M-F 10Base-T Crossover	\$7.90



Handset & Line Cords for Telephone Equipment

Part No.	Description	Length	Price
399-057	4 Wire Cord	7'	\$2.05
399-058	4 Wire Cord	14'	\$3.00
399-059	4 Wire Cord	25'	\$4.05
399-062	6 Wire Cord	14'	\$3.85
404-721	6 Wire Cord	25'	\$5.05
399-067	8 Wire Cord, Round	25'	\$6.93
399-070	Modular Handset Cord, Ivory	12'	\$4.05
399-071	Modular Handset Cord, Ivory	25'	\$5.10

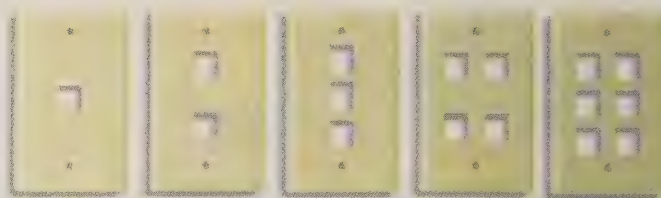


Cat 5 110 Block Kits

■ EIA/TIA 568-A Category 5 Compliant

Convenient kits come complete with everything you need. 110 block, legs, label holders, label strips, 4 pair 110 connectors and 5 pair 110 connectors.

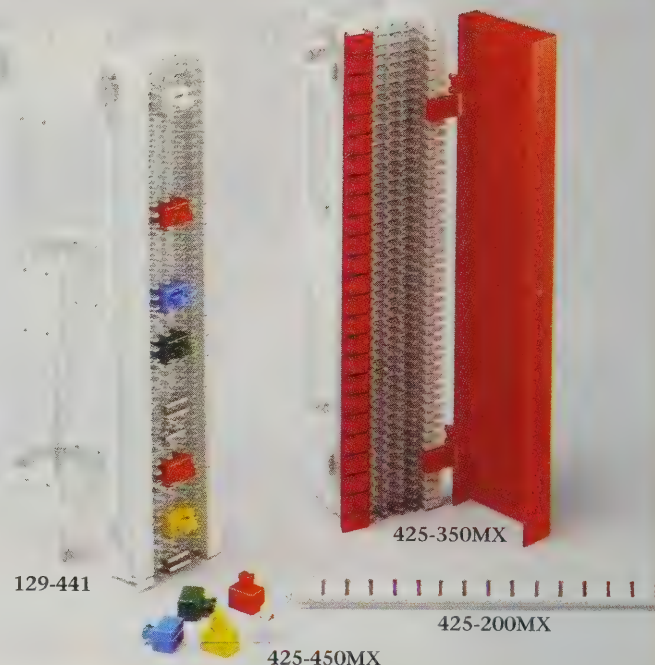
Part No.	Description	Price
780-035	100/pr. 110 Block Kit	\$27.85
780-036	300/pr. 110 Block Kit	\$66.95



Plastic Wall Plates

■ Accepts keystone jacks and feedthrough modules

Part No.	Description	Price
399-021	1 Port Single Gang, Ivory	\$2.00
399-022	1 Port Single Gang, White	\$2.00
399-023	2 Port Single Gang, Ivory	\$2.00
399-024	2 Port Single Gang, White	\$2.00
399-025	3 Port Single Gang, Ivory	\$2.00
399-026	3 Port Single Gang, White	\$2.00
399-027	4 Port Single Gang, Ivory	\$2.30
399-028	4 Port Single Gang, White	\$2.30
399-029	6 Port Single Gang, Ivory	\$2.30
399-030	6 Port Single Gang, White	\$2.30



50 Pair 66 Block and Accessories

Part No.	Description	Price
129-439	Unwired 50 Pair Block	\$13.00
129-441	Block Stand-Off	\$5.10
425-350MX	Hinged Block Covers, 5/pk.	\$14.30
425-200MX	Lined Rim Strips, 10/pk. (white only)	\$2.15
425-450MX	Single Pair Bridge Clips, 125/pk. (25 ea./5 colors)	\$45.90



UNICOM Category 5E Feed-Thru Panel

■ RJ-45 to RJ-45 connectors

The Category 5E Feed-Thru Panel allows you to locate desktop concentrators (or hubs) on a 19" rack mount configuration for easy cable management. The unique design can connect patch cords while maintaining Category 5E performance and meets EIA/TIA 568-A UTP Standard for data transmission up to 100 MHz.

Part No.	Description	Price
780-420	Category 5E Feed-Thru Panel	\$132.60



Feedthrough Modules

Snap into any keystone wall plate, surface mount box, or patch panel. Jacks have female connectors on both sides to accommodate terminated cables.

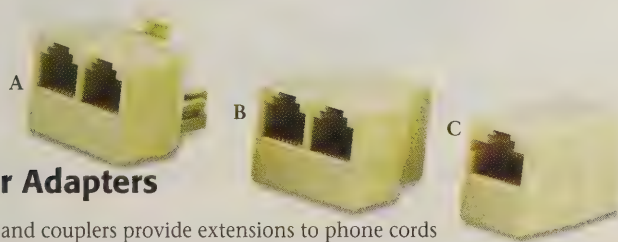
Part No.	Description	Price
399-011	RJ-11 Feedthrough Module, Ivory	\$5.60
399-012	RJ-11 Feedthrough Module, White	\$5.60
399-013	RJ-45 Feedthrough Module, Ivory	\$5.85
399-014	RJ-45 Feedthrough Module, White	\$5.85
399-007	CATV F Feedthrough Module, Ivory	\$2.55
399-008	CATV F Feedthrough Module, White	\$2.55



Surface Mount Keystone Boxes

Accept any keystone jack. Single or double jack openings. Single poet modules feature a slide latch to connect together.

Part No.	Description	Price
399-017	Single Jack Surface Mount Box, Ivory	\$2.55
410-433	Single Jack Surface Mount Box, White	\$1.80
399-019	Double Jack Surface Mount Box, Ivory	\$3.00
399-020	Double Jack Surface Mount Box, White	\$3.00



Modular Adapters

Adapters and couplers provide extensions to phone cords or allow the connection of one piece of phone equipment to another.

Part No.	Key	Description	Price
399-076	A	4 Wire Modular Jack Splitter	\$2.55
399-077	A	6 Wire Modular Jack Splitter	\$2.80
399-075	B	6 Wire Modular Duplex Coupler	\$3.30
399-074	C	8 Wire Modular Coupler	\$2.55
399-072	C	4 Wire Modular Coupler	\$2.30
399-073	C	6 Wire Modular Coupler	\$2.30



Category 5/5E In-Line Coupler

Moves, additions and changes become hassle-free when you have the ability to join patch cords to fit your specific application. Easily joins Category 5/5E patch cords while maintaining the high standard of EIA/TIA Category 5/5E. Each is PCB designed for maximum reliability and has a special locking mechanism design for easy feed-through panel installation.

Part No.	Description	Price
780-140	Category 5E In-Line Coupler, White	\$12.00
780-141	Category 5E In-Line Coupler, Beige	\$12.00
405-438	Category 5 In-Line Coupler, White	\$7.15
405-437	Category 5 In-Line Coupler, Beige	\$7.15
780-102	Category 5 5 1,2/3,6 Crossover, White	\$10.70

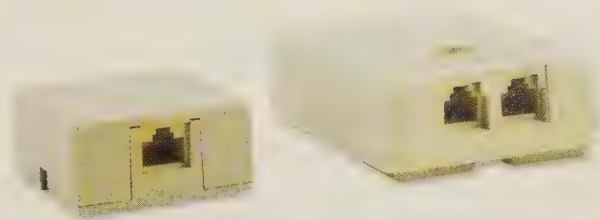


Category 5E Keystone Jacks

- Cat 5E jacks are color coded for 568A or B
- Backward compatible for Cat 5 applications

The Enhanced Category 5 jack is specially designed for high-speed network applications. Snap into standard keystone wall plates, surface mount boxes or patch panels. A 110 punchdown tool is required to terminate wire. Jacks are UL listed.

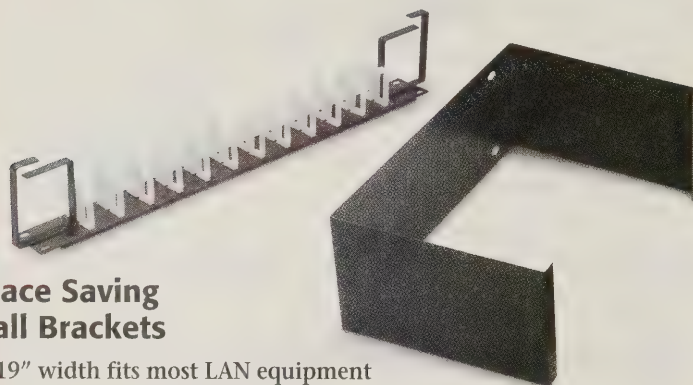
Part No.	Description	Price
399-001	Enhanced Cat 5 Keystone Jack, Ivory	\$5.05
419-374	Enhanced Cat 5 Keystone Jack, White	\$5.05



Surface Mount Telephone Jacks

Available in screw terminal and insulation displacement termination. Jacks can be screwed down or mounted with foam tape included.

Part No.	Description	Price
780-020	8 Wire Single Jack, Category 4, IDC	\$3.84
780-022	8 Wire Dual Jacks, Category 4, IDC	\$6.70
399-050	4 Wire Single Jack, Screw Terminal	\$2.30
399-051	6 Wire Single Jack, Screw Terminal	\$2.55
399-052	8 Wire Single Jack, Screw Terminal	\$3.55



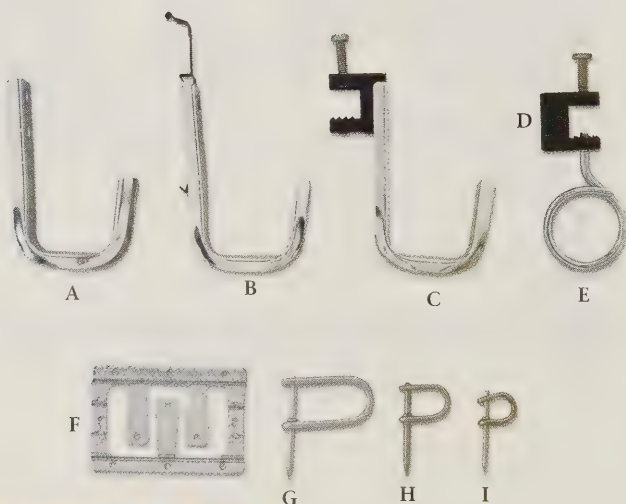
Space Saving Wall Brackets

- 19" width fits most LAN equipment
- 12" depth accommodates hubs

Space saving brackets are black zinc-plated 14-gauge steel drilled with universal 10-24 threaded screw holes. 12" depth will allow mounting of most hubs and repeaters and all patch panels. Perfect for installations where a floor standing rack is impractical. Hinged on one side for easy access to rear of equipment.

Wire Minder organizes path cords and distribution cables.

Part No.	Description	Size	Price
410-275	Wall Bracket	19 x 7 x 12"	\$56.60
410-276	Wall Bracket	19 x 12-1/4 x 12"	\$71.05
780-205	Wire Minder	—	\$31.60



Thomas & Betts

Spring Steel Fasteners

- Provides an easy alternative for wire installations

Bridal ring (requires beam clamp), drive rings, and J-Hooks all offer a quick and economical means of installing and supporting network, telecom, and CATV cabling inside and outside the building. The low voltage mounting bracket eliminates the need for an electrical box when installing low voltage Class 2 wiring.

Part No.	Key	Description	Price
462-076	A	2" Cable Support J-Hook 50/pk.	\$87.32
462-078	B	2" Cable Support J-Hook w/clip to #12 drop wire 25/pk.	\$55.91
462-077	C	2" Cable Support J-Hook w/Beam Clamp 25/pk.	\$69.88
462-070	D	Stamped Steel Beam Clamp 100/pk.	\$59.37
462-071	E	1-5/8" Bridal Ring 100/pk.	\$75.72
462-072	F	Low Voltage Bracket 100/pk.	\$74.97
462-075	G	7/8" Drive Ring 25/pk.	\$8.50
462-074	H	5/8" Drive Ring 25/pk.	\$4.05
462-073	I	1/2" Drive Ring 50/pk.	\$6.40



A Network Systems Solution

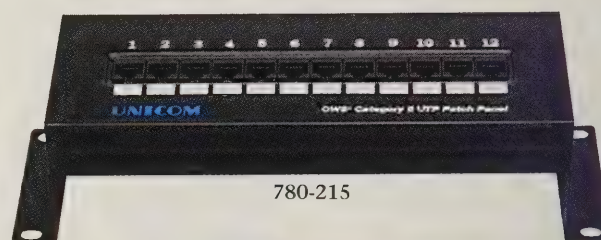
UNICOM

ENHANCED
C5

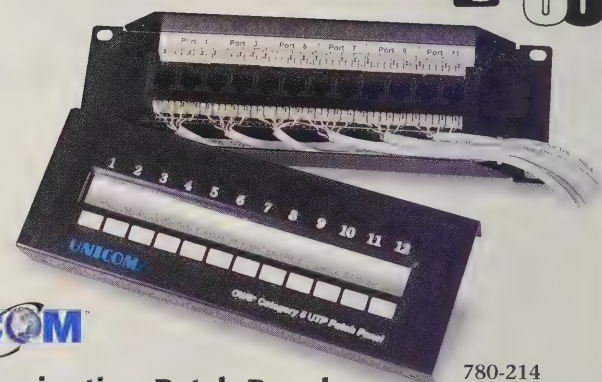
Category 5E Patch Panels

The all new Enhanced Category 5 Patch Panels from Unicom are designed to meet and exceed the EIA/TIA 568-B Category 5 Enhanced proposed standards.

Part No.	# of Ports	Rack Space	Rear Connector	Price
409-197	16	1	110 PDB	\$72.05
780-361	24	1	110 PDB	\$89.85
409-199	48	2	110 PDB	\$164.00
190-914	96	4	110 PDB	\$312.00



ENHANCED
C5



A Network Systems Solution

UNICOM

Front Termination Patch Panels

- Flush mount and wall mount

Enhanced Category 5, T568B, 12 port wall mount 110 jack panels provide a professional solution for smaller installations and expansions of existing networks. These patch panels allow front termination of the 110 connections by removal of a front cover. Once the snap-on cover is re-installed, the termination area is protected and not visible. The cover can then be removed for additions and changes.

Part No.	Description	Price
780-214	Flush Mount Patch Panel	\$79.55
780-215	Wall Mount Patch Panel w/standoffs	\$81.60



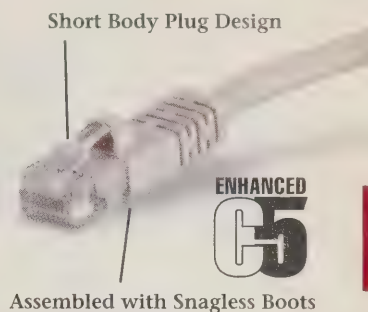
Enhanced Cat 5 UTP Patch Cord

■ Snagless boot design

Designed for Enhanced Category 5 applications, these patch cords feature a short body designed to minimize the distance of untwisting in a pair as a result of termination to contact pins. The cords are equipped with a plug that has a snagless molded boot which covers the clip to prevent the tab from grabbing on other cables or hardware. White only.

10Base-T Enhanced Category 5: 4 Pair 24 Gauge Stranded, Molded Strain Relief

Part No.	Description	Price
780-310	1' Length	\$4.10
780-311	3' Length	\$5.10
780-312	7' Length	\$7.15
780-313	10' Length	\$8.15
780-314	14' Length	\$9.20
780-315	25' Length	\$14.30



Category 5 Stranded Patch Cords

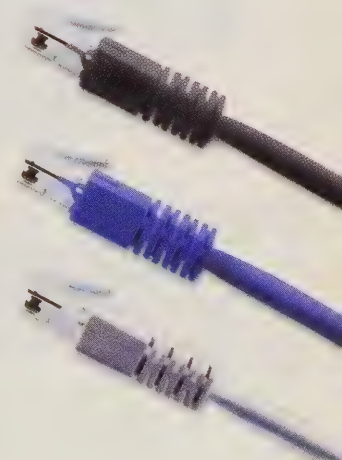
Optimum performance, data integrity and speed are critical to your network. These stranded, molded UTP patch cords meet EIA/TIA 568-A Category 5 Standards and reduce crosstalk by minimizing kinked cables. Different colors available to simplify identification. UL listed, CSA approved and ETL Category 5 certified.

10Base-T Category 5: 4 Pair 24 Gauge Stranded, Molded Strain Relief

White	Part No. Black	Blue	Description	Price
780-405	780-405BK	780-405BL	1' Length, PVC	\$3.30
780-406	780-406BK	780-406BL	3' Length, PVC	\$4.35
780-410	780-410BK	780-410BL	5' Length, PVC	\$5.05
780-407	780-407BK	780-407BL	7' Length, PVC	\$5.85
780-411	780-411BK	780-411BL	10' Length, PVC	\$6.90
780-408	780-408BK	780-408BL	14' Length, PVC	\$8.15
780-409	780-409BK	780-409BL	25' Length, PVC	\$11.75

10Base-T Category 5: Cross-Over Cables

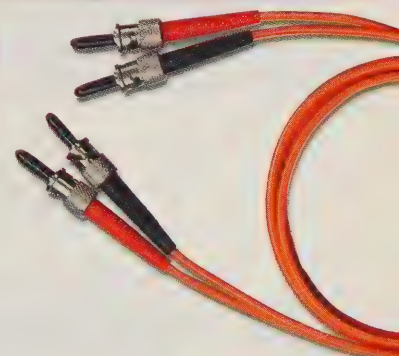
Part No.	Description	Price
780-750	3' Length	\$4.35
780-751	7' Length	\$5.35
780-752	14' Length	\$7.40



ST & SC Fiber Optic Multimode Duplex Cable Assemblies

Each connector is fitted with a zirconia ceramic ferrule for optimal system performance.

Part No.	Description	Price
29-001	1M ST-ST Assembly	\$28.95
29-002	3M ST-ST Assembly	\$30.07
29-004	7M ST-ST Assembly	\$37.00
29-005	10M ST-ST Assembly	\$41.10
29-006	1M SC-SC Assembly	\$26.50
29-007	2M SC-SC Assembly	\$27.55
29-008	3M SC-SC Assembly	\$29.60
29-009	5M SC-SC Assembly	\$31.60
29-010	10M SC-SC Assembly	\$37.75

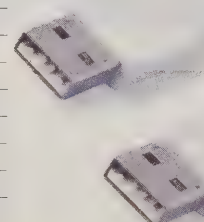


USB (Universal Serial Bus) Cables

■ UL listed ■ Beige color jacket

Part No.	Description	Price
502-610	USB A to A Cable 3'	\$5.10
502-611	USB A to A Cable 6'	\$6.10
502-612	USB A to A Cable 10'	\$7.65
502-613	USB A to B Cable 3'	\$5.10
502-614	USB A to B Cable 6'	\$6.10
502-615	USB A to B Cable 10'	\$7.65
502-616	USB A Plug to A Jack 3'	\$5.60
502-617	USB A Plug to A Jack 6'	\$7.15
502-618	USB B to B Cable 3'	\$5.10
502-619	USB B to B Cable 6'	\$6.10
502-620	USB B to B Cable 10'	\$7.65

A to A
Cable
Shown





COLEMANCABLE
INCORPORATED



Bulk Cables

■ UL listed

Unshielded Twisted Pair, Solid Conductor

Coleman twisted pair cable is ideal for Gigabit Ethernet, 100 BaseT, Broad Band Video, 155 Mbs ATM, Fast Ethernet, T1, ISDN and 622 Mbps ATM applications. **SigLAN 350** cable can also be used in 1000 BaseT applications because it exceeds CAT5E and is tested to 350 MHz.

Part No.	Description	Quantity	Price
420-708	CAT5E, 4pr., 24 gauge, PVC	1000' box	\$104.95
419-690	SigLAN 350, 4pr., 24 gauge, PVC	1000' box	\$109.95

A Network Systems Solution

UNICOM

Unshielded Twisted Pair, Stranded Conductor

Part No.	Description	Quantity	Price
780-540	CAT5, 4pr., 24 gauge, PVC	1000' box	\$142.80

Unshielded Twisted Pair Cable

Part No.	Description	Quantity	Price
502-205	CAT5E, 4pr., 24 gauge, PVC, Stranded	1000' box	\$153.01
502-206	CAT5E, 4pr., 24 gauge, PVC, Solid	1000' box	\$131.56

A Network Systems Solution

UNICOM

Flat Satin Line Cord, Stranded Conductor

Perfect for wiring telephones, terminals, and other low speed devices.

Part No.	Description	Quantity	Price
966-428	4 conductor, 26 gauge	500' roll	\$36.20
966-628	6 conductor, 26 gauge	500' roll	\$58.15

COLEMANCABLE
INCORPORATED

Coax Cable

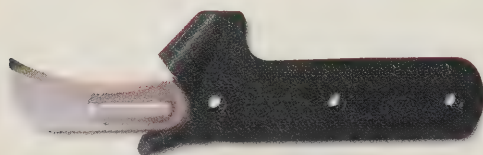
Part No.	Description	Quantity	Price
419-691	RG59B/U, NCV, 75Ω	1000' box	\$292.00
419-692	RG6/U, PVC, 75Ω	500' box	\$58.75
419-693	RG6/U Quad-Shield, PVC, 75Ω	500' box	\$73.45

GREENLEE

Electrician's Knife

A single tool that can be used to remove the jacket on most cables commonly installed by electricians. It's range includes 14-2 NM-B building wire to 750 MCM THHN building cable to 16-4 STO portable cord to 50 pair CM telephone cable. It contains two blades, a main blade for ringing cable and for slicing thicker jackets, and a side blade for peeling thinner jackets. The side blade is limited in depth so it will not damage the underlying wire insulation or nick bare wire.

Part No.	Description	Price
418-824	Electrician's Knife	\$21.25

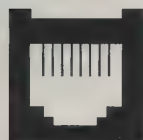
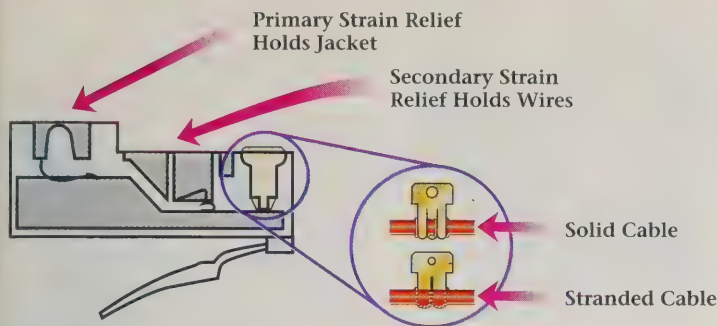


STRIP

CUT-OFF

PEEL

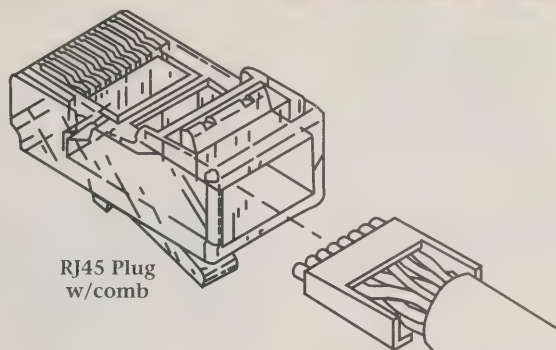




RJ-45



RJ-11



RJ-11 DECconnect



Handset RJ-22

Network Modular Plugs

Note: Read Tool Tip below regarding AMP plugs and plugs w/combs.

Plugs for round solid unshielded twisted pair cable

Part No.	Description	Quantity	Price
80-681	RJ-45 AMP Plugs (USA)	100	\$68.40
80-040	RJ-45 AMP Plugs w/ Comb (USA)	100	\$71.40
502-580	RJ-45 Plugs	50	\$19.40

Plugs for round stranded unshielded twisted pair cable

Part No.	Description	Quantity	Price
80-686	RJ-45 AMP Plugs (USA)	100	\$66.30
80-060	RJ-45 AMP Plugs w/Comb (USA)	100	\$67.40
502-588	RJ-45 Plugs	50	\$19.40
502-002	RJ-45 Plugs w/Comb	50	\$57.75

Plugs for round solid shielded twisted pair cable

Part No.	Description	Quantity	Price
80-050	RJ-45 AMP Shielded Plugs (USA)	100	\$155.00
502-810	RJ-45 Shielded Plugs	50	\$81.60

Snagless Boots for RJ-45 Plugs

Color code your RJ-45 cables with these strain relief snagless boots. Prevents kinking at the plug and provides coverage of the latch making it easy to pull the cable without snags.

Part No.	Description	Price
502-040RD	Red Boot	\$0.46
502-040GR	Green Boot	\$0.46
502-040BL	Blue Boot	\$0.46
502-040WH	White Boot	\$0.46
502-040BK	Black Boot	\$0.46
502-040YL	Yellow Boot	\$0.46



Tool Tip

RJ-45 Plugs w/Comb

RJ-45 plugs with a comb are intended for CAT 5 applications. The comb aids in keeping a maximum distance of 1/2" from the last twist, the most allowed to achieve Category 5 performance. This helps insure that the expert or novice installer has terminated a proper plug. The crimp tools needed for these plugs must only crimp the primary strain relief.

AMP plugs w/comb must be crimped with AMP frame 80-020 and die 80-007. Standard AMP RJ-45 plugs must be used with a die designed to crimp AMP plugs.

Go to our Crimp Tool section starting on page 216 and carefully read the descriptions.

Telephone Modular Plugs

Plugs for flat satin cable

Part No.	Description	Quantity	Price
80-337	RJ-22 AMP Handset Plugs (USA)	100	\$22.50
966-344	RJ-22 Handset Plugs	100	\$15.75
80-631	RJ-11 AMP Four Contact Plugs (USA)	100	\$22.50
966-346	RJ-11 Four Contact Plugs	100	\$15.75
80-675	RJ-11 Six Contact Plugs (USA)	100	\$23.00
966-366	RJ-11 Six Contact Plugs	100	\$18.90
80-995	RJ-45 AMP Plugs (USA)	100	\$66.30
966-388	RJ-45 Plugs	50	\$19.95
80-680	RJ-11 AMP MMJ DEC Plugs (USA)	100	\$90.80
178-555	RJ-11 MMJ DEC Plugs	100	\$24.10

Plugs for solid round cable

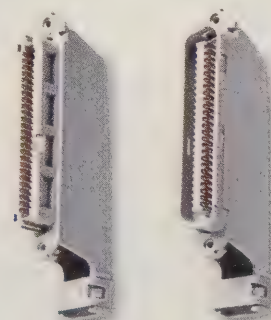
Part No.	Description	Quantity	Price
80-688	RJ-11 AMP Four Contact Plugs (USA)	100	\$29.60
502-064	RJ-11 Four Contact Plugs	100	\$17.35
80-689	RJ-11 AMP Six Contact Plugs (USA)	100	\$26.60
502-066	RJ-11 Six Contact Plugs	100	\$19.40

AMP

Champ 25-Pair Telephone Connectors

Champ insulation displacement provides low-cost and easy termination of unstripped cable. Copper alloy contacts with 30 micro-inches of gold.

Part No.	Description	Price
80-073	50 Position Plug	\$7.10
80-063	50 Position Receptacle	\$7.10





D-Subminiature Connector Kits

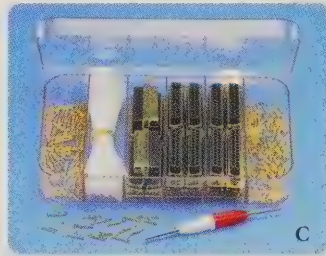
Jensen connector kits offer you an easy solution to building D-subminiature connectors for RS-232 and other interfaces. You can order one part number and receive everything you need to build several connections.



Kit A



Kits B & C



C

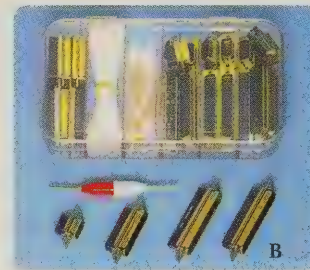
D-Subminiature Kits

RS-449 Kit with Stamped Pins (B)

Part No.	Description	Price
23-249	100 Pins, Male 100 Pins, Female 6 ea.: DB-9, DB-25, DB-37 Plugs M	Cable Ties Metal Tip Pin Inserter/Extractor 3 ea.: DB-9, DB-25, DB-37 Plugs F \$73.50

RS-232 Kit with Stamped Pins (C)

Part No.	Description	Price
23-232	100 Pins, Male 100 Pins, Female 16 DB-25 Plugs M	Cable Ties Metal Tip Pin Inserter/Extractor \$66.30



B



A

Mil-Spec Kits

RS-232 Kit (A)

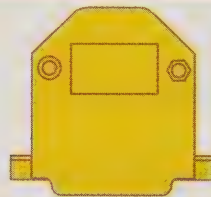
Part No.	Description	Price
80-232	100 Pins, Male 100 Pins, Female 12 DB-25 Plugs M 6 DB-25 Plugs F	Cable Ties Metal Tip Pin Inserter/Extractor Metal Case 12 Hoods \$145.00

RS-449 Kit (A)

Part No.	Description	Price
80-249	100 Pins, Male 100 Pins, Female 6 ea.: DB-9, DB-25, DB-37 Plugs M 3 ea.: DB-9, DB-25, DB-37 Plugs F	Cable Ties Metal Tip Pin Inserter/Extractor Metal Case 6 Hoods ea. size \$180.00

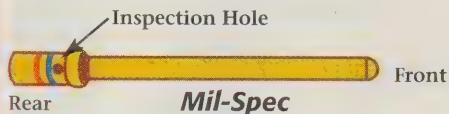
D-Subminiature Connectors

Pins and connectors are designed to fit together. Order from the corresponding section only.

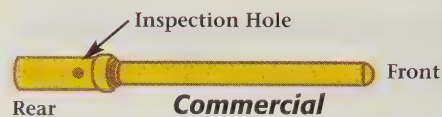


Connector Covers/Hoods

Part No.	Description	Price
80-135	Plastic Hood DB-9	\$3.05
80-531	Plastic Hood DB-25	\$1.95
80-133	Plastic Hood DB-37	\$3.55
502-009	Metal Hood DB-9	\$3.50
502-025	Metal Hood DB-25	\$3.50
502-037	Metal Hood DB-37	\$4.08
80-199	Male Screwlocks	\$0.85
80-528	Female Screwlocks	\$1.80



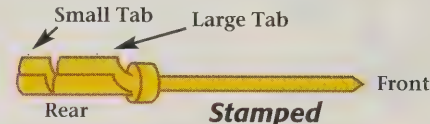
Mil-Spec



Commercial

Crimp Pins and Connectors

Part No.	Description	Price
378-952	Machined Pins, M, 100/pk.	\$18.65
378-953	Machined Pins, F, 100/pk.	\$30.55
378-006	DB-9 Plug M	\$2.05
378-005	DB-9 Plug F	\$1.80
378-008	DB-25 Plug M	\$2.55
378-007	DB-25 Plug F	\$2.05
378-002	DB-37 Plug M	\$4.55
378-001	DB-37 Plug F	\$2.60



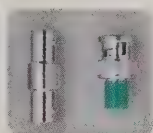
Stamped

Crimp Pins and Connectors

Part No.	Description	Price
80-489	Mil-Spec Pins, M, 100/pk.	\$18.40
80-480	Mil-Spec Pins, F, 100/pk.	\$26.60
80-539	DB-9 Plug M	\$1.80
80-540	DB-9 Plug F	\$1.80
80-538	DB-25 Plug M	\$2.30
80-537	DB-25 Plug F	\$2.05
80-536	DB-37 Plug M	\$2.80
80-535	DB-37 Plug F	\$2.30

Crimp Pins and Connectors

Part No.	Description	Price
658-025	Stamped Pins, M, 100/pk.	\$4.62
658-520	Stamped Pins, F, 100/pk.	\$4.86
658-901	DB-9 Plug M	\$0.94
658-900	DB-9 Plug F	\$0.94
502-060	DB-15 Hi-Density Plug, M	\$2.15
502-061	DB-15 Hi-Density Plug, F	\$2.15
658-955	DB-25 Plug M	\$1.04
658-905	DB-25 Plug F	\$1.04



BNC Connectors & Adapters

Consistent quality

Part No.	Description	Price
80-122	BNC 3-Piece Crimp-On Connector, Fits generic RG-58A/U and /U w/outer diameter of about 0.19" and PVC jacket	\$2.80
99-125	BNC 3-Piece Crimp-On Connector, RG-59	\$2.05
99-401	BNC 3-Piece Crimp-On Connector, RG-6	\$2.40
80-221	BNC Barrel Connector, F to F	\$3.85
80-543	BNC "Tee", F to M to F	\$4.05
80-162	BNC Terminator, 50°	\$3.45
502-010	BNC Y Adapter, 180°	\$6.74

JENSEN®

Solderless Terminals Kit

500 pieces in 20 different types and sizes and a wire stripper/crimping tool. Tool crimps insulated terminals, strips wires and cuts bolts in five different sizes. Comes in a metal box.



Part No.	Description	Gauge	Price
23-090	Solderless Terminal Kit w/Tool	10-22	\$71.40
80-521	Wire Stripper/Crimping Tool	—	\$13.20

JENSEN®

2100 Piece Solderless Terminal Kit

Fits 10-22 gauge wire

2000 of the most popular insulated terminals in 20 different styles plus 100 7-1/2" cable ties. Metal storage box has a small compartment for each terminal type plus a large compartment for cable ties. Refills are available in packs of 100. Replacement list is included. 1-334 includes a ratcheting crimper and die set (p/n 500-700 ratcheting crimper frame only & 600-214 die set) 10-22 AWG.

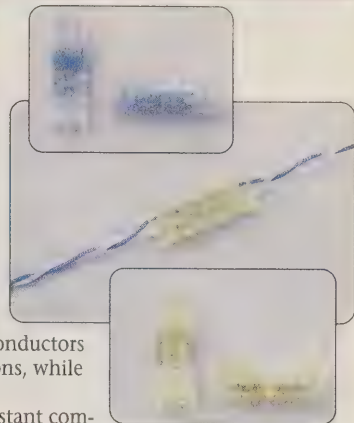


Part No.	Description	Gauge	Price
23-210	Solderless Terminal Kit	10-22	\$135.00
1-334	Terminal Kit w/Ratcheting Crimper	10-22	\$170.00
896-021	Metal Storage Box	—	\$14.65

Thomas & Betts

Quick Snap, 709 Connectors

The single pair connector design provides cost effective pair-at-a-time splicing that reduces the number of connectors and the size of the splice bundle thus saving time, sleeve material and encapsulant. They accommodate 22-26 gauge copper conductors in straight splice and half-tap configurations, while requiring only minimal installation effort. Availability includes a filled, moisture resistant compound that provides protection from the elements in the Outside Plant environment, and an unfilled version that provides flame retardant protection for buildings and cable entrance applications. A simple pair of pliers is all that is required to complete the splice.



Part No.	Description	Price
419-676	Unfilled 709 Wire Connectors, 200pc.	\$36.70
419-677	Filled 709 Wire Connectors, 200pc.	\$52.40

JENSEN® Solderless Terminals

Sold in quantities of 100

Part No.	Description	Gauge	Price
204-301	Female Quick Disconnect	22-18	\$7.70
204-302	Female Quick Disconnect	16-14	\$7.70
204-304	Butt Splice	22-18	\$7.20
204-305	Butt Splice	16-14	\$7.20
204-306	Butt Splice	12-10	\$8.70
204-308	Female Ring Terminal, 5-6 Stud	22-18	\$6.90
204-309	Female Ring Terminal, 10 Stud	22-18	\$7.20
204-311	Spade Terminal, 4-6 spade	22-18	\$6.90
204-312	Spade Terminal, 10 spade	22-18	\$6.90
204-316	Ring Terminal, 5-6 stud	16-14	\$6.90
204-318	Ring Terminal, 10 stud	16-14	\$7.20
204-319	Spade Terminal, 6 stud	16-14	\$7.20
204-321	Spade Terminal, 10 stud	16-14	\$6.90
204-324	Ring Terminal, 10 stud	12-10	\$8.20
204-325	Ring Terminal, 1/4" stud	16-14	\$9.70
204-326	Spade Terminal, 10 stud	12-10	\$8.20
204-328	Male Quick Disconnect Blue	16-14	\$7.20
204-335	Male Quick Disconnect Red	22-18	\$7.20
204-352	Closed Splice	22-14	\$6.40
204-353	Dead End Splice	18-10	\$7.20



Solderless Terminals

1300 pieces in 13 varieties, made to exacting tolerances. Kit is housed in a sturdy plastic cabinet with 20 separate drawers. A crimping tool can be stored in a large bottom drawer. Replacement parts are available (see chart above) in packs of 100.



Part No.	Description	Price
23-185	Solderless Terminal Kit	\$90.80
172-589	20 Drawer Cabinet only	\$18.20

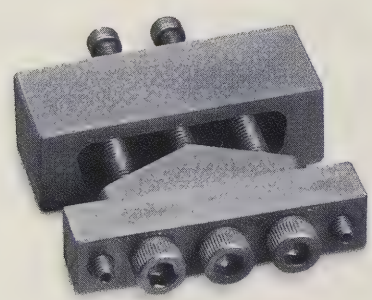


Insertion/Extraction Tools

- QPL-81969 approved
- Metal tips

For use with MS-81969 rear release connectors. One end of tool used to insert contacts and the other to extract. Color-coded to indicate contact size. 405-630 and 125-978 are for high density connectors.

Part No.	Description	Color	AWG Size	Price
191-577	Insert/Extract Tool	Green	22	\$5.60
80-672	Insert/Extract Tool	Red	20	\$5.60
191-575	Insert/Extract Tool	Blue	16	\$5.60
405-630	Insert/Extract Tool, HD	Green/White	22-28	\$6.10
125-978	Insert/Extract Tool, HD	Red/White	24-20	\$5.60

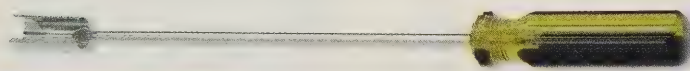


Panel Punches For D-Subminiature Plugs Receptacles

- Precision punching of mounting holes

Punch/die units will punch holes for mounting the RS-232 (25 pin), RS-449 (9, 15, or 37 pin) standard D-Subminiature plugs and receptacles. Capacity: 22 to 16 gauge steel or aluminum. Mounting holes are accurately located and pin-pricked before punching. All fasteners are socket headed and hex wrenches are provided. All models can be reground to sharpen. Comes with 25 adhesive-backed templates to aid in positioning holes.

Part No.	Description	Price
190-286	RS-449 Punch, 9-Pin	\$163.00
125-156	RS-449 Punch, 15-Pin	\$175.00
125-158	RS-232 Punch, 25-Pin	\$175.00
190-284	RS-449 Punch, 37-Pin	\$175.00
191-566	Templates, 25/pkg., 9-Pin	\$6.80
191-564	Templates, 25/pkg., 15-pin	\$6.80
190-278	Templates, 25/pkg., 25-pin	\$6.80
190-280	Templates, 25/pkg., 37-pin	\$6.80



Paladin Tools

BNC Connector Extractor Tool

The easy answer to removing BNC connectors in high density or hard-to-reach locations. Works on crimp and twist-on connectors.

Part No.	Description	Price
497-068	8" BNC Removal Tool	\$22.40
497-069	12" BNC Removal Tool	\$22.40



Contact Insertion and Removal Kits

- Front release contacts

Insert and remove contacts on connectors conforming to MIL-C-26482 and MIL-C-26500: Amphenol, Bendix, Burndy, Cannon, Cinch, Continental, Deutsch, Elco, Flight, Pyle National, etc. Strong durable tool steel probes. Kits include one each of sizes 12 (yellow), 16 (blue) and 20 (red) tools in zipper case.

Insertion Tools

Part No.	Description	AWG	Mil Spec	Price
125-193	Contact Insertion Kit	—	—	\$122.00
125-183	Insertion Tool	16	M81969/17-04	\$36.70
190-292	Insertion Tool	20	M81969/17-03	\$36.70

Removal Tools

Part No.	Description	AWG	Mil Spec	Price
191-552	Contact Removal Kit	—	—	\$130.00
125-208	Removal Tool	16	M81969/19-08	\$43.60
190-294	Removal Tool	20	M81969/19-07	\$83.15



Pin & Socket Extraction Tool

- Front release contacts

Designed for size 16 pin and socket contacts, it features a handle and sleeve to release the contact lance and a push rod button to eject the contact.

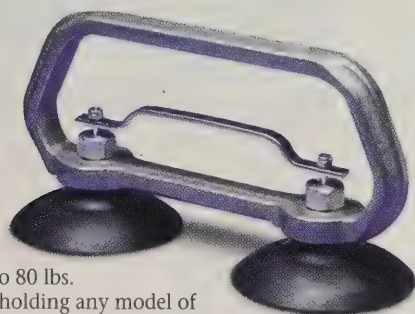
Part No.	Description	Price
80-183	Pin & Socket Extraction Tool	\$15.80



Insertion/Extraction Tool

Handle provides storage space for tips and hex wrench. Six insertion/extraction tips are color coded. Color legend is molded into handle body. Tips handle D-Sub RS-232, HD-20 and HD-22 contacts including posted contacts.

Part No.	Description	Price
125-979	Insertion/Extraction Tool, 6 Tips	\$18.75



Floor Pullers and Wall Bracket

Double-cup lifters can lift up to 80 lbs. Optional Wall Mount Bracket for holding any model of floor panel puller that we sell.

Part No.	Description	Price
570-540	4" Double-Cup Puller	\$30.20
570-541	5" Double-Cup Puller	\$33.80
570-001	Optional Wall Mount Bracket	\$25.00



Reels and pipe not included

Rack-A-Tiers

Rack-A-Tiers

A multi-purpose wire stand that will hold most common wire spools up to 30". They are easy to set up and to transport to any work location. In addition to holding wire spools, the two 'V' notches on the top make an excellent pipe vise to hold rod and pipe from 1/4" to 4" diameter. They also make a convenient saw horse or small workbench to help get work off the ground. Made of durable plastic that will hold up for many years of use.

Part No.	Description	Price
134-114	Rack-A-Tiers Wire Stand	\$96.00



451-003

451-004

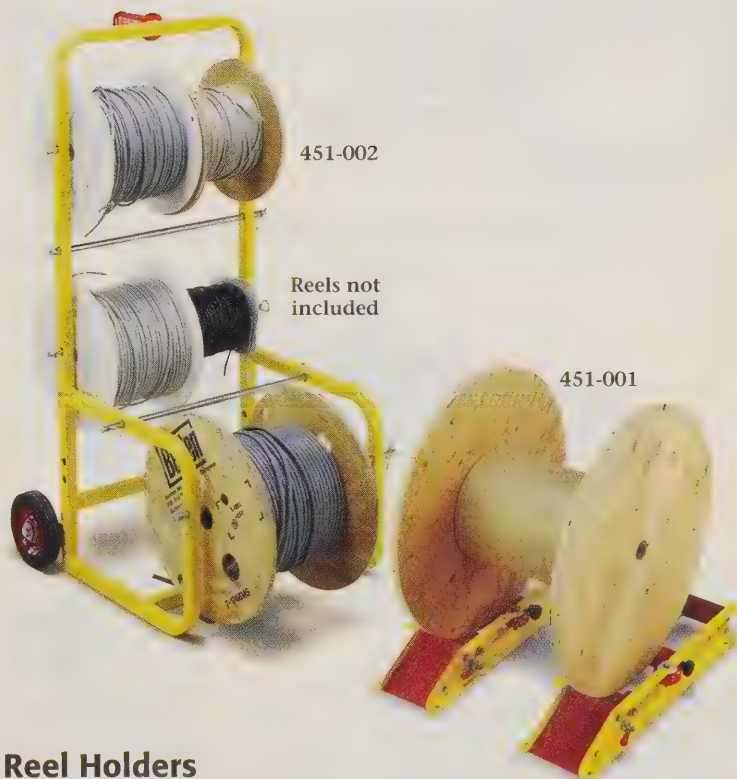
Reels not included

DataCom & Electrician's Caddy

451-003 DataCom Caddy is a lightweight and easy-to-use folding cable caddy. Engineered for use in data and communication cable installations. Constructed from welded steel tubing, it has one 1/2" diameter solid steel spool support bar that's zinc plated for corrosion resistance and an overall durable powder coated finish. The DataCom Caddy will hold any spooled product up to 16-1/2" wide x 20" diameter.

451-004 Electrician's Caddy is ideal for carrying multiple spools of wire. It has two 1/2" diameter support bars and zinc-plated R-Clips that hold the spools in place. The Electrician's Caddy will hold one spool up to 16-1/2" wide x 20" diameter or four spools up to 8" wide x 8" diameter. Both have a unique folding mechanism that facilitates convenient transport and storage without having to remove the spool support bars.

Part No.	Description	Price
451-003	DataCom Caddy	\$81.55
451-004	Electrician's Caddy	\$86.65



451-002

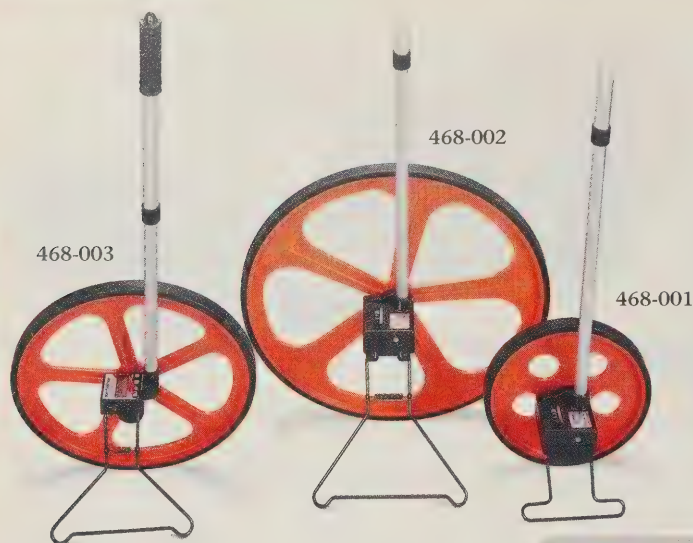
Reels not included

451-001

Reel Holders

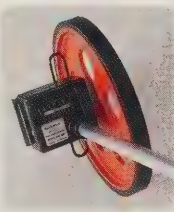
451-001 accepts any reel up to 2,000 lbs. Bolt together steel construction. Locking front roller for loading, adjustable rear roller. 4-1/2 x 9 x 29-1/2", 52 lbs. **451-002** handles multiple reels up to 16" diameter, 17" width. 250 lbs. capacity. 1/2" steel spool bars. 6" rubber tires. 43 x 24 x 22", 32 lbs.

Part No.	Description	Price
451-001	Spool Roller	\$367.20
451-002	Spool Cart	\$198.90

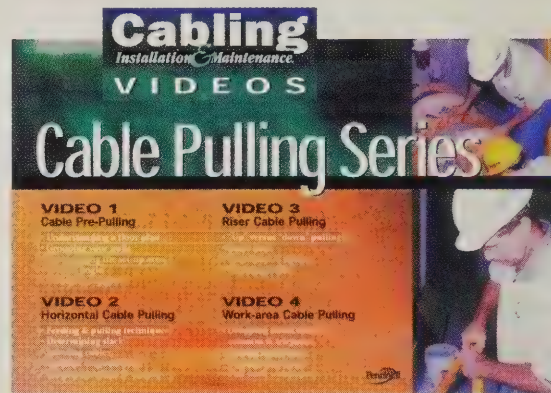


Handy Wheels

Simple rugged device for measuring distances up to 10K', and accurate to within 1". Wheels are a high visibility orange and have a kickstand. Telescoping handle makes storage easy. Available in 10" and 19". A digital version is also available in a 15" size that will measure in feet/inches, feet/hundredths, or meter/centimeters. LCD display shows six digits and measures up to 10K. Two counters capture incremental and total measurements in just one pass. Zippered carry case provided with each wheel. Lifetime manufacturer warranty.



Part No.	Description	Price
468-001	10" HandyWheel	\$86.65
468-002	19" HandyWheel	\$101.95
468-003	15" Digital HandyWheel	\$112.15



Cable Pulling Videos

- Train new hires quickly & easily
- Establish cable pulling guidelines to increase efficiency
- Decrease install time & prevent costly mistakes

The Cable Pulling Series from Cabling Installation & Maintenance consists of four 45-minute training sessions that take the telecommunications professional through every aspect of pulling cable in a commercial building. From understanding floor plans and securing cables to pulling techniques and work area issues, The Cable Pulling Series is essential education for both novice and experienced cabling professionals alike.

Tape #1 teaches how to plan and lay out cable routes prior to installation. Determine routes, pathways and the order in which cable should be pulled and how to read floor plans and layouts.

Tape #2 shows horizontal pulling techniques to increase efficiency in one of the most labor-intensive areas of cable pulling. Instructs the essentials of teamwork and knowing each member's responsibilities.

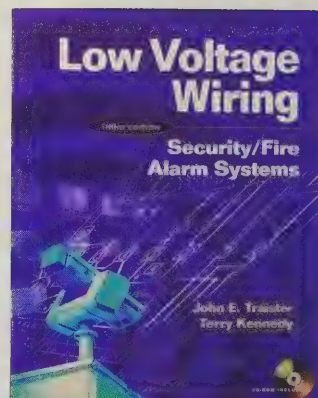
Tape #3 shows one of the most critical elements in structured cabling; how to install larger cable and the best techniques for securing it.

Tape #4 explains how to drop cable down walls, columns and telepoles, cut holes in dry walls, install box eliminators and pull cable through modular furniture.

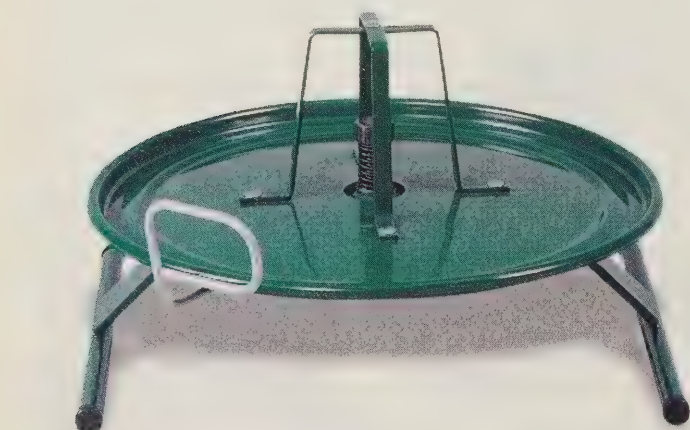
Part No.	Description	Price
256-001	Cable Pulling Videos (4)	\$504.90

Low Voltage Wiring Security/Fire Alarm Systems

A comprehensive source of easy-to-use answers for designing, installing, maintaining, and troubleshooting security and fire alarm systems in residential and commercial buildings. The book with included CD also cover the topics of cabling, building automation, the coming of photovoltaic circuits, understanding blueprints, a look at the code and a quick guide to troubleshooting techniques. It is loaded with photos, drawings, and checklists that back up the text. Also covered are business-building tools on how to maximize your profits as a low voltage contractor, estimating guidelines and tips, and writing real-world contracts. 406 pages.



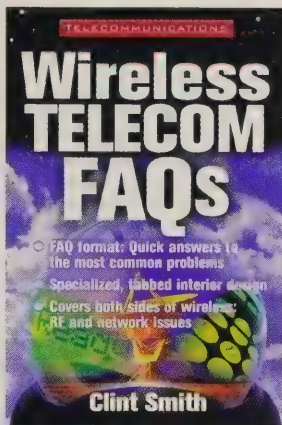
Part No.	Description	Price
419-364	Low Voltage Wiring	\$39.79



BX-Armored Coiled Cable Dispenser

Dispense BX-armored cable, flexible conduit, Greenfield or Romex fast and easy without twists or tangles. Base has an adjustable tension control that rotates to dispense the cable without overpulling. A large pulling eye rotates freely and can be used as a carrying handle when the dispenser is empty.

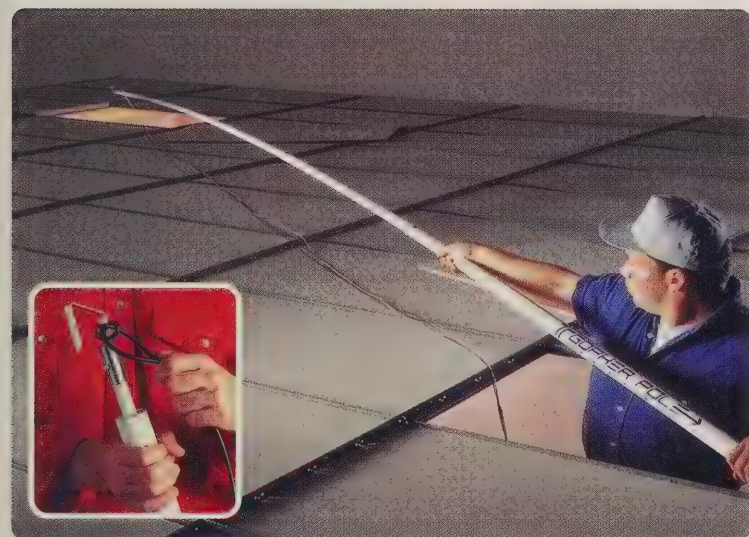
Part No.	Description	Price
64-014	BX-Armored Coiled Cable	\$221.80



Wireless Telecom FAQs

Wireless newcomers and veterans alike can find all the get-ahead answers on technology and networking basics they need in an easy-access, frequently asked question (FAQ) format. Written with a balanced, vital overview of these aspects of the wireless industry: technologies, network systems, radio systems, implementation, real estate, RF, filters, antennas, design guidelines, traffic engineering, performance, and more. Also covers the basics of cellular and PCS, TDMA, CDMA, and GSM. 450 pages.

Part No.	Description	Price
960-040	Wireless Telecom FAQs	\$39.79



Gopher Pole® Wire Installation Tool

- Non-conductive fiberglass construction
- Telescopes to 22' long in seconds

Push-pull wire installation tool for fishing wires over long spans or hard-to-reach areas such as suspended ceilings, sub-floors, crawl spaces and attics. Self-contained, no loose parts. Rigid, lightweight (4 lbs.), easy-to-handle. Collapses to 52" x 2" diameter. Optional **Carrying Case** available. One year warranty.

Part No.	Description	Price
411-125	Gopher Pole Wire Installation Tool	\$155.00
191-293	Optional Carrying Case	\$17.85



For an expanded selection of install products visit contacteast.com or jensentools.com



Rapid-Pak Fish Tapes

- Rewinds 3x faster
- Reversible knob, right or left-hand use
- Choose steel or fiberglass tape

Stationary handle with rotating center hub and reversible winding knob. Sturdy ABS case with funneled tape opening. Available with steel or fiberglass tapes in 50' and 100' lengths.



Part No.	Description	Length	Price
191-719	Steel Fish Tape	50'	\$61.30
191-697	Steel Fish Tape	100'	\$90.03
600-187	Fiberglass Fish Tape	50'	\$132.55
181-875	Fiberglass Fish Tape	100'	\$189.95



Tuff Grip Fish Tapes

- Stainless, fiberglass, steel

Oversized comfortable handle with finger grooves makes pay outs and rewinds smooth and fast. Case maintains positive tension on tape to prevent scrambling. Available with steel, nylon coated fiberglass and stainless tapes



Part No.	Description	Length	Price
407-637	Steel Fish Tape	50'	\$40.75
407-638	Steel Fish Tape	100'	\$56.90
407-639	Steel Fish Tape	200'	\$79.00
191-387	Fiberglass Fish Tape	50'	\$125.25
191-611	Fiberglass Fish Tape	100'	\$152.50
600-166	Stainless Fish Tape	100'	\$73.00
600-167	Stainless Fish Tape	200'	\$95.35



Fish Tapes

Spring Steel Tapes are 1/8" x .060" and come in 50', 100' and 200' lengths. Multi-Strand Tape is 3/16" diameter, more flexible than spring steel and comes in 50' length.



Part No.	Description	Length	Price
127-506	Spring Steel Fish Tape	50'	\$34.85
64-100	Spring Steel Fish Tape	100'	\$67.25
37-500	Multi-Strand Fish Tape	50'	\$98.00

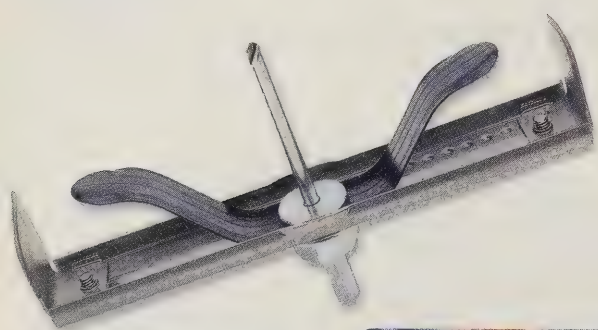


CableCaster™

- Faster cable installations
- 50 foot range

CableCaster is designed to significantly speed up the installation of light-weight communications cable through hard-to-reach spaces, such as suspended ceilings, rafters and sub-floors. It launches a dart up to 50 feet to the cable supply access point, pulling a durable monofilament line. The cable is attached to the dart, and pulled back with the CableCaster take-up reel. The darts are aerodynamically designed for true and accurate flight and glow in the dark to help locate them in dimly lit areas. An integral flashlight holder on top will accommodate a Mini Maglite and the bright yellow body makes it less likely to leave behind.

Part No.	Description	Price
64-015	CableCaster	\$59.25
64-011	(4) CableCaster Darts	\$7.20
686-002	Mini-Maglite	\$14.50



Quick Cutter Hole Saw

Designed to fit a 3/8" drill, the carbide coated self-sharpening blades will quickly and easily cut holes in drywall and ceiling tiles. You can cut holes from 2.5 to 7" diameter adjustable in 1/2" increments. This is ideal for recessed lighting, circular in-wall speakers or any application that requires a clean-cut hole. A dust shield is included to keep the dust and debris to a minimum.

Part No.	Description	Price
64-400	Quick Cutter Hole Saw	\$27.55

New



Quick Change Hole Saw Kit

Arbor Allows for Rapid Mounting or Removal of Hole Saws

- Faster and easier slug removal
- Arbor shank for 3/8" and heavy duty 1/2" chucks
- Hole saws for 1/2" through 2" conduit sizes

7 piece set comes in a high-impact, rugged plastic carrying case.

Part No.	Description	Price
425-537	Quick Change Hole Saw Kit	\$92.50



Fish Tapes

- New Zoom and Thumb Winder tapes

The Zoom Fish Tape is the most technologically advanced and offers the critical need for a flexible and durable fish tape. It has a braided stainless steel core with an ultra hard polyamide resin jacket. It's optimized for use in conduit runs with difficult cable placement characteristics such as multiple bends, elbows, and junction boxes. It has the capability to deliver true omni-directional pushing performance so it can handle multiple bends and changes in plane without hanging up or deforming within the conduit, and it won't break or rust. The transparent case is extremely durable and allows the operator to see how much tape is left on the reel.

The Thumb Winder Fish Tape is designed to offer 50 feet of blued steel tape in a much smaller profile high impact storage case. This allows the user to be able to carry or store the unit while only requiring about 50% of the space of a standard fish tape. The thumb winder mechanism is not only low profile, but allows efficient wind and rewind of the tape.

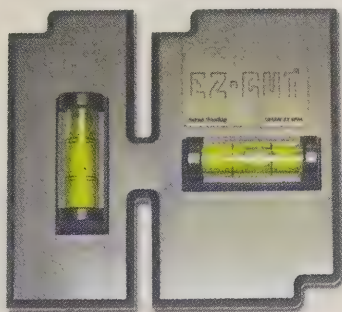
Part No.	Description	Price
419-682	Thumb Winder Fish Tape 50'	\$26.10
419-683	Zoom Fish Tape 50'	\$71.10
419-684	Zoom Fish Tape 100'	\$96.95





Professional Level and Template Tool

Quick and accurate installation of electrical boxes for telephone, LAN, electrical circuits, television or other wire cable applications. Use as template for single and dual gang electrical boxes. Built-in levels for both configurations.



Part No.	Description	Price
223-001	Level and Template Tool	\$13.20



IntelliSensor™ Pro Stud Sensor™

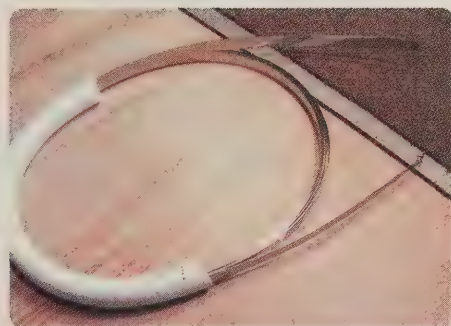
Locates studs and joists and differentiates between wood and metal. Detects live wires for added safety. Registers metal/rebar through 2" of concrete. LED display and audio horn indicate the stud edges and centerposition for accurate marking. Ergonomically designed heavy-duty ABS construction. Auto calibration. Requires 9V battery (included). One year warranty.



Part No.	Description	Price
865-720	IntelliSensor Pro Stud Sensor	\$35.70

Undercarpet Tape

The Undercarpet Tape is a 25 feet long annealed stainless steel, 3/4" wide tape with one end curled up and the other rounded. This allows the user to run wire or cable between the padding and the carpet. A very practical solution for when the home or building is on a concrete pad and you are unable to fish through the walls and ceiling.

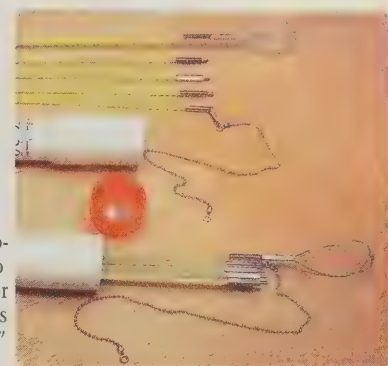


Part No.	Description	Price
711-036	Undercarpet Tape	\$55.10

Fiberglass Wire Running Kits

■ Ideal for the cable installer

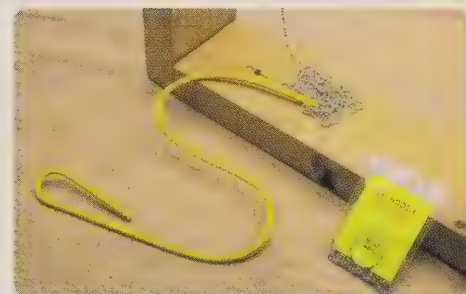
Make conventional fish tapes obsolete with this kit. Assemble the rods to the desired length, and fish the wire or cable with precision and ease. Consists of five 6-ft. green fiberglass rods (.159" in diameter), - four with male/female screw-on connectors, one with female on one end and a bullet shaped head with a cross hole at the other end to attach the wire. A 1-ft. ballchain attached to the cross hole grabs it easily, when inside a wall. "Wisp" shaped head used as a guide keeps the rods from getting stuck on obstacles and provides a "wheel" to creep from side to side. The 711-032 is made of luminescent epoxy fiberglass rods (stronger and slightly stiffer) that glow in the dark after being "charged" in full light. This makes it much easier to see when running cable in a dark attic or crawl space. Interchangeable with the standard green rods.



Part No.	Description	Price
711-007	Green Fiberglass Wire Running Kit	\$88.75
711-032	Luminous Fiberglass Wire Running Kit	\$182.05

Flexible Retriever & Ball Chain

The retriever component is a flexible, insulated 24" handle with a neodymium magnet attached to one end. This rare earth magnet will not loose its magnetism if it is hit. Also includes 10 feet of .090" smooth nickel plated steel ball chain and a stop ring that will prevent the chain from falling through the drilled hole. Comes with a #6 in-ring connector to pull the wire and a #3 "b" coupling to attach a second chain if needed. This is very efficient when fishing wires through walls or tight spaces.



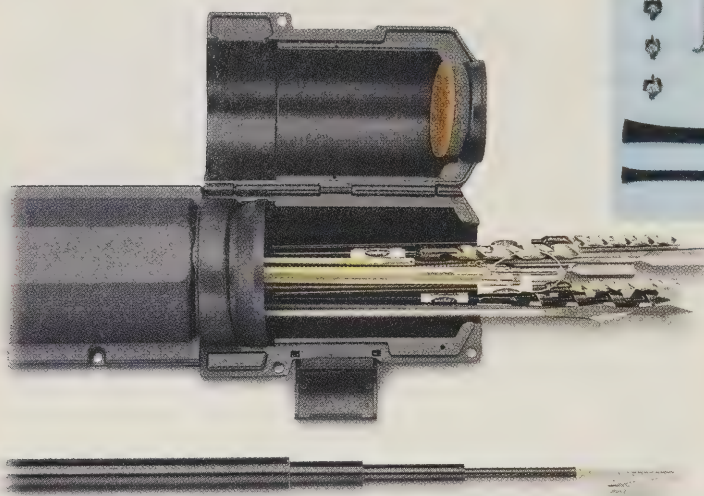
Part No.	Description	Price
711-005	Flexible Retriever & Ball Chain	\$19.55

Wall-Eye Flashlight

A periscope-type unit with flashlight and mirror incorporated to see inside walls, pipes or ceilings, through a 2" diameter hole. Eliminates blind "hits and misses", while searching for holes in fire block, top or bottom plates, studs or joists. A "must" when fishing between ceiling and upper floor. Held with one hand, it lets you see the free hand direct your fishing tool. Insert the end with the light and the mirror in the wall or ceiling and turn on the switch. Look through the peep hole and the angled mirror and light will reveal a well-lighted wall cavity.



Part No.	Description	Price
711-037	Wall-Eye Flashlight	\$31.55

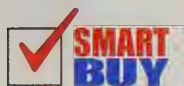


Wire and Cable Installation Tools

- Unique, hard to find tools
- Industry specific kits
- Individual tools available

Wiring low voltage systems such as video & alarm, home automation, telephone, CATV, and data communications in existing structures is difficult because wires must be run in restricted and difficult to access areas. These custom designed tools from Labor Saving Devices meet any wiring challenge. Designed by a master installer for his own use and now marketed to you, these tools can dramatically cut installation times and help make installations cleaner.

Individual Tool		Kits (see prices at bottom of columns)		
Part No.	Description and Use	711-001 Alarm/Security	711-002 CATV, Telecom	Tool Price
711-004	Densimeter locates wood or steel studs and detects AC lines	●	●	\$62.00
711-005	10' of ball chain with flexible retriever with magnet to fish inside empty walls or walls with stapled insulation	●	●	\$19.55
711-006	Telescoping Pocket Hook Retriever to pull ball chain through 1/4" hole	●	●	\$12.25
711-007	Five 6' long Fiberglass Rods which can screw together for running wires inside insulated walls and over false ceilings	●	●	\$88.75
711-032	Phosphorous version of 711-007 (glows in dark)			\$182.05
711-009	3' Push/Pull Fiberglass Rod with bullet shaped tips with cross hole on both ends	●	●	\$8.95
711-010	4' Push Only Fiberglass Rod, one end with diagonal flat surface and hole to push wire through top or bottom plate	●		\$7.10
711-031	Phosphorus version of 711-010 (glows in dark)		●	\$19.55
711-011	6' Phosphorous (glows in the dark) Fiberglass Rod to push or pull wire through top or bottom plate	●	●	\$30.20
711-012	Telescoping Pole 12' to push or pull wire with special tip above false ceilings, over beams, in attics or crawl spaces	●		\$88.75
711-029	18' version of 711-012		●	\$147.90
711-013	Rubber Caps to protect ends of the 711-011		●	\$4.20
711-014	3' Spring Steel Wire Bits (0.047") which can be cut to any length. For making a reference hole to measure from when drilling into specific wall cavity. Set of 10	●	●	\$12.25
711-015	Directional Tool for use with flex bits and extension	●	●	\$13.20
711-016	Spear Bit for drilling wood from any direction. 1/4" x 18"	●		\$7.90
711-017	Spear Bit 3/8" x 24"	●	●	\$10.15
711-018	Spear Bit 3/8" x 48"	●	●	\$18.35
711-019	Spear Bit 1/2" x 18"		●	\$8.95
711-020	Bellhanger Bit 1/4" x 24"	●		\$16.25
711-021	Bellhanger Bit 3/8" x 36"	●	●	\$21.55
711-022	Bellhanger Bit 3/8" x 72"	●	●	\$23.10
711-023	Bellhanger Bit 1/2" x 24"		●	\$22.60
711-024	Auger Bit with screw point 3/4" x 18"			\$27.85
711-025	Kit of Wood Boring Bits 1-1/4", 2", 4", 6' flex shafts and flex shaft extensions			\$225.40
711-027	1/2" Woven Sleeve for pulling connectorized cables or wire bundles			\$15.85
711-028	Carrying Case	●	●	\$88.75
KIT PRICES		\$424.95	\$514.95	



FLUKE
networks



CertiFiber Fiber Certification Tool

- Multi-mode fiber certification in seconds
- Cuts test time by 75% over manual power meters

Testing your multi-mode fiber cable has never been faster or easier. Select a standard such as TIA 568A or IS 11801, input the number of splices and connectors, and press the Autotest. Automatically runs the length, propagation delay, and dual fiber loss measurements for both 850nm and 1300nm, and provides a Pass/Fail analysis based on the fiber standards along with the amount of headroom available over and above the Pass/Fail margin. Up to 1,000 time and date stamped autotests can be stored and then downloaded to a PC with the included ScanLink software.

Kit includes CertiFiber Tester and CertiFiber Remote (both with three AA alkaline batteries), ScanLink Diskette to download stored Autotests, PC serial interface cable and a soft carrying case. 3.2" x 7.2" x 1.6", 14.9 oz. (Remote is same size, 13.4 oz.) One year warranty.

Part No.	Description	Price
419-343	CertiFiber Fiber Certification Tool	\$3,295.00



FLUKE
networks

SimpliFiber Power Meter and Optical Sources

- Single and Multimode available

SimpliFiber is a power meter and optical source for measuring the loss of multimode fiber optic cables and components. The kit includes a dual wavelength 850/1300nm source and an 850/1300/1310/1550nm meter. It incorporates the latest fiber technology with data storage and a PC-ready interface to boost user productivity.

SimpliFiber is a rugged, field-deployable, hand-held tool with an optical source that is stable and repeatable for consistently accurate results. Auto-wavelength detection and data recording minimize testing errors. In addition to the intuitive four-button keypad and large LCD display, measurement results can be easily uploaded from memory to the PC using ScanLink software. Results can be reviewed, reports created, and data files saved or exported.

Kit includes: SimpliFiber meter, SimpliFiber light source, ScanLink software and serial cable, 4 AA batteries, optic cleaning pads, carry case and user guide. 6.25" x 3.5" x 1.25". One year warranty.

Part No.	Description	Price
419-751	SimpliFiber ST Kit	\$1,295.00
412-220	SimpliFiber 1310 Laser Source (ST)	\$995.00
559-019	SimpliFiber 1550 Laser Source (ST)	\$1,495.00
419-335	SimpliFiber SC Kit	\$1,395.00
412-221	SimpliFiber 1310 Laser Source (SC)	\$965.00
559-020	SimpliFiber 1550 Laser Source (SC)	\$1,495.00



**For replacement batteries,
see page 437**



**SMART
BUY**
NOYES
A Division of Alcoa Fujikura Ltd.

Optical Fiber Scopes

- 200 and 400X
- Easy-to-use

These scopes are a versatile instrument for the inspection of optical fiber connectors. Two models of OFS 300 are available: **Model OFS 300-200C** offers precision 200X magnification to easily inspect both multi-mode and single-mode fiber optic connectors. **Model OFS 300-400C** with 400X magnification is available for more critical inspection during termination, especially with single-mode fibers. Various adapter caps are available to facilitate viewing of the desired connector style. **Model OFS 300-200C** uses the same common threaded connector adapter caps as the Noyes Optical Power Meters and Loss Test Sets. **Model OFS 300-400C** utilizes special precentered snap-in adapter caps, which insure proper fiber location in the viewing area.

Part No.	Description	Price
76-150	200X Optical Fiber Scope	\$409.00
76-151	400X Optical Fiber Scope with X-Y Adjustment	\$508.00
406-129	Replacement Bulb, for either Scope (5 Pack)	\$10.00
76-154	Hard Carrying Case for either Scope	\$86.70
76-155	Tripod Stand for either Scope	\$74.50
76-156	FC Adapter Cap for 400X Scope	\$52.05
76-157	SMA Adapter Cap for 400X Scope	\$52.05
76-158	SC Adapter for 400X Adapter	\$98.90
76-159	ST Adapter Cap for 400X Scope	\$98.90
76-100	FC Adapter Cap for Power Meters	\$51.00
76-102	SMA Adapter for 200X Scope	\$51.00
406-131	SC Adapter Cap for Power Meters	\$52.50
406-132	ST Adapter Cap for Power Meters	\$52.50
76-103	FDDI Adapter Cap for 200X Scope	\$120.00



Singlemode Optical Loss Test Kit

■ NIST traceable

The SLP4-6D kit comes complete with the OLS2-Dual laser source which provides an output of 1310 and 1550nm wavelengths in either continuous wave mode or 2 kHz modulated mode. It offers excellent stability and portability for accurate fiber optic testing. Also included is the OPM4-4C Power Meter which is fully NIST traceable and provides years of accurate measurements. Kit comes complete with carry case.

Part No.	Description	Price
76-021	SLP4-6D Singlemode SC Optical Loss Test Kit	\$2,995.00



High-Performance Optical Test Kit

■ Stores 500 readings ■ Connects to PC ■ NIST traceable

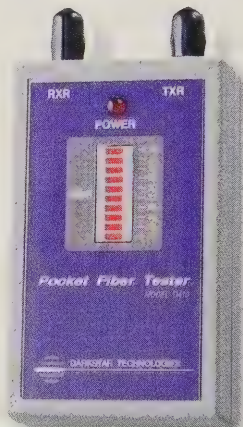
MLP5-2B High-Performance Optical Test Kit offers 850 and 1300nm detection in multimode and 1300 nm in singlemode. Measures power levels from +6 to -60 dBm with an accuracy of ± 0.25 dB and a resolution of 0.01 dB. 250 measurements can be stored in the non-volatile memory, downloaded to a PC, or linked to a PC for realtime measurements. Kit includes carrying case, OPM-5 Power Meter, DOS software and cable, OLS 1-2 ST light source with 850 and 1300nm outputs, an ST adapter, and a 9V battery. One year warranty.

Part No.	Description	Price
76-161	MLP5-2B High-Performance Optical Test Kit	\$1,695.00



Fiber Cable Checkers

Quickly checks integrity of fiber optic cables. Source output is 800nm light at -20dBm and the receiver displays received power on LED bar graph, showing relative power. Available in All-In-One unit with the source and receiver built into one box, or individual testing end-to-end. 9V battery included.



Part No.	Description	Price
131-149	All-In-One ST Fiber Cable Checker	\$264.20
190-482	ST Source only	\$182.60
191-392	ST Receiver only	\$182.60
414-478	All-In-One SC Fiber Cable Checker	\$300.90



For replacement batteries, see page 437



Fiber Optic Talk Set

■ Works on Single and Multimode ■ Full duplex, hands free operation

An inexpensive solution to meet your multimode or singlemode fiber optic communication needs. Designed for voice communication over spare fibers, this product provides full duplex, hands free operation. The FTS1-2C operates at 1300nm with a dynamic range up to 20 dB. Fiber talk sets come in pairs and include headsets, protective rubber boots, manual, and 9V batteries. Set up with SC connector.

Part No.	Model	Description	Price
76-022	FTS1-2C	Fiber Optic Talk Set	\$2,395.00

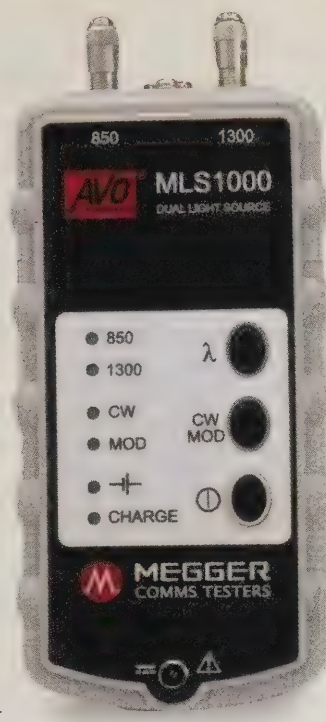


Fiber Loss Test Kits

Each kit consists of a power meter with ± 0.25 dB accuracy, light source with -20dBm output, and case. **Power Meters** can accommodate various connector adapters. The **Light Source** must use fixed connectors. Powered by long-life 9V alkaline batteries included. One year warranty.



Part No.	Description	Price
76-012	Fiber Loss Test Kit, 850 & 1300nm LED, ST	\$1,015.00
76-001	Power Meter, 850, 1300, 1550nm (requires Adapter below)	\$465.00
76-002	Light Source, 850, 1300nm, Multimode, ST	\$708.90
406-131	SC Adapter Cap for Power Meters	\$52.50
76-100	FC Adapter Cap for Power Meters	\$51.00
406-132	ST Adapter Cap for Power Meters	\$52.50



MLS1000 Multi-Mode Light Source

- 850 & 1300 nm LED source
- High stability output
- Temperature compensated

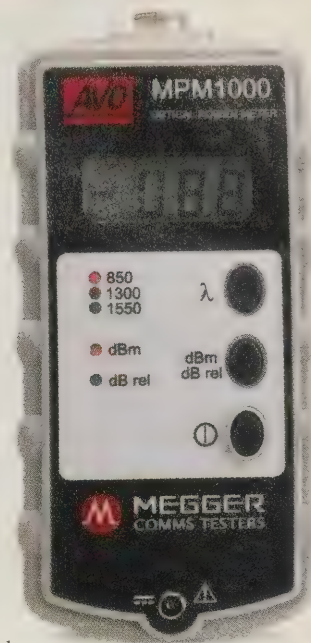
The MLS1000 is a stable optical dual LED source that can be used in conjunction with an optical power meter for optical loss testing of fiber optic cables. It has been pre-calibrated to output 850nm or 1300nm wavelengths for an output level of -20dBm into a 62.5/125 multi-mode fiber at continuous or modulated outputs. Suitable for the testing of LAN's, FDDI, and other multi-mode links whether inside or outside a building. Other applications include fiber continuity testing, connector testing, and patch lead testing. Includes case, user guide and 3 year warranty. ST connector.

Part No.	Description	Price
293-030	Megger® MLS1000 Multi-Mode Light Source	\$703.80

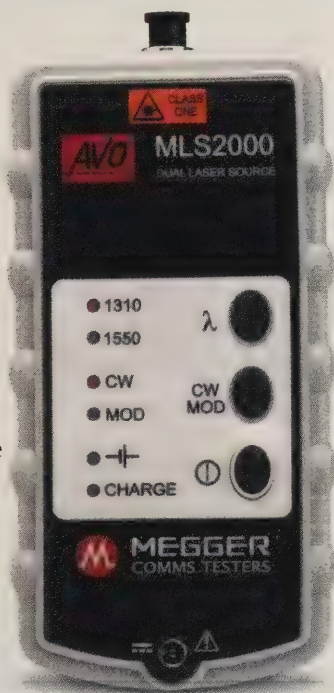
MPM1000 Multi-Mode Power Meter

- 850, 1300 & 1550nm germanium detector
- Wide dynamic range
- dBm & dBrel measurement modes

The MPM1000 is an accurate optical power meter that can be used for optical loss testing of fiber optic cables. It has been calibrated for absolute power levels with reference to 1 mW (dBm) for 850nm, 1300nm and 1550nm laser frequencies using multimode cables. However, it can also be used in relative power mode allowing it to be used on single-mode cables. Accuracy is $\pm 5\%$ at -23 dBm (± 0.22 dBs) and has a wide dynamic range of +5 dBm to -60 dBm with a resolution of 0.1 dBm. Suitable for testing LAN's, FDDI, and other multi-mode links, as well as fiber continuity, connector, and patch lead testing. Includes case, user guide and 3 year warranty. ST connector.



Part No.	Description	Price
293-031	Megger® MPM1000 Multi-Mode Power Meter	\$482.00



MLS2000 Single Mode Stabilized Laser Source

- 1310 & 1550nm Dual Laser Source
- Ultra fast laser stabilization
- High stability output
- High output power

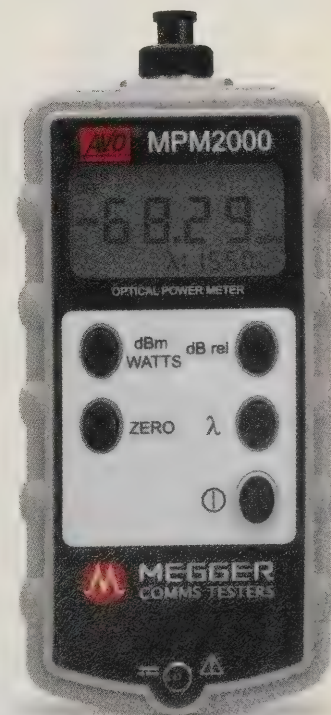
The MLS2000 is a stable optical dual laser source that can be used in conjunction with an optical power meter for optical loss testing of fiber optic cables. It is temperature compensated and has been pre-calibrated to output 1310nm or 1550nm wavelengths for an output level of -6 dBm into a 9/125 single-mode fiber. The output can be continuous or modulated. It is suited for the testing of SDH, CATV, telecom and other single mode links. Other applications include optical continuity testing, acceptance testing of fiber transmitters and received power testing of optical receivers. Includes case, user guide and 3 year warranty. SC connector.

Part No.	Description	Price
293-032	Megger® MLS2000 Single Mode Stabilized Laser Source	\$1,630.00

MPM2000H Single Mode Power Meter

- 850, 1300, 1310 & 1550nm germanium detector
- High-power CATV version
- Wide dynamic range
- dBm & dBrel measurement modes

The MPM2000H is an advanced optical power meter that can be used for optical loss testing of fiber optic cables. It has been pre-calibrated for absolute power levels with reference to 1mW (dBm) for 1310nm and 1550nm laser frequencies using single mode cables. In relative power mode it can be used on multi-mode cables. Accuracy is $\pm 5\%$ (0.22 dBs) and has a dynamic range of +20 dBs to -60 dBs making it ideal for CATV and other long distance transmission applications. However, it is also suited for the testing of SDH, Telecom and other Single Mode links. Other features include automatic power down, and dBrel setting retained during power down. Includes case, user guide and 3 year warranty. SC connector.



Part No.	Description	Price
293-033	Megger® MPM2000H Single Mode Power Meter	\$1,020.00



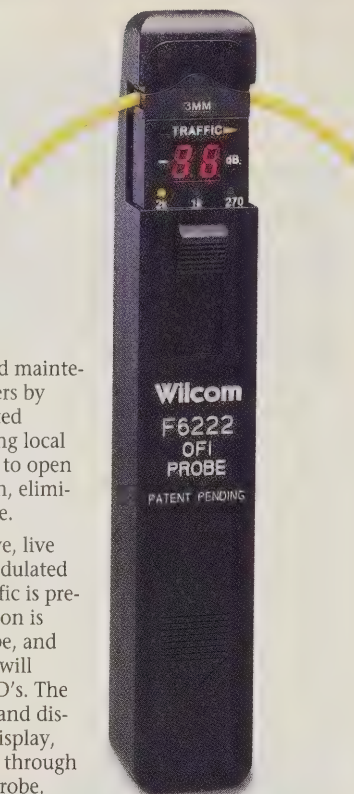
Wilcom

Optical Fiber Identifier

- Handheld & lightweight
- Non-destructive macro-bending technology
- Operates from 800nm to 1700nm

A rugged and easy-to-use installation and maintenance instrument that identifies optical fibers by detecting the optical signals being transmitted through a singlemode fiber. By using utilizing local detection technology it eliminates the need to open the fiber at the splice point for identification, eliminating the probability of interrupting service.

Signals detected include continuous wave, live optical transmission, and low frequency modulated tones at 270, 1000, and 2000 Hz. When traffic is present on the fiber, the direction of transmission is indicated by LED's illuminating on the probe, and when modulated tones are present the unit will detect and illuminate the corresponding LED's. The relative core power in the fiber is measured and displayed on a two-digit, seven segment LED display, allowing for the measurement of power loss through a splice or connector. Includes Fiber Optic Probe, leather carrying case and three interchangeable adapter heads for jacketed, coated or ribbon fiber.



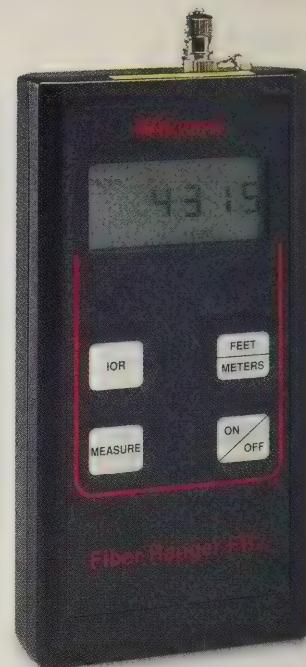
Part No.	Description	Price
265-002	Optical Fiber Identifier	\$1,940.00

Wilcom

Optical Fault Locator

- Measure up to seven events
- Singlemode & Multimode
- Single key operation

The FR2 Fiber Ranger Optical Fault Locator is a rugged, lightweight, hand-held optical fault locator for multimode and single mode applications. It uses OTDR (Optical Time Domain Reflectometer) technology to pinpoint faults in optical cable that can be over 20 kilometers away. It operates at the industry standard wavelength of 1310nm and can display the distance to the fault in meters or feet. Useful applications for the FR2 include testing WAN's, telecommunication spans, Fiber-to-the-Curb, installation and maintenance of multimode and singlemode fiber cabling, and Military systems. It's also ideal for locating tight bends, crimps, faulty connectors, bad splices or breaks in fiber cables. Includes an easy to read LCD display and a single measure push-button for activating the unit's measure operation. The Index of Refraction (IOR) is user selectable and the FR2 has the ability to detect up to seven multiple events.



Part No.	Description	Price
265-001	Optical Fault Locator	\$2,655.00



FLUKE
networks



Optical Fiber Test Installer Packages

- Tests multimode fiber at 850 & 1300nm wavelengths

Fiber Test Installer packages from Fluke allow you to test and inspect multimode fiber optic links quickly and efficiently. The FTK Basic Package includes the FM130 Fiber Meter, FOS-850/1300 LED source, Fiber Optic Reference Guide and Hard Carrying Case. This kit is best suited for contractors who only have a few fiber links and don't need automated recording of test results. The FTK Pro Package includes the FM150 Fiber Source, Data-LINK™ Software, Fiber Optic Reference Guide and Hard Carrying Case. This kit is ideal if you require documentation and report generation needs. It will automatically store up to 500 records of test data that can be uploaded to your PC via the Data-LINK™ Software. The FT120 Fiber Viewer is included with both packages and is for inspections of multimode fiber end-faces to ensure that your termination is smooth and clean and ready for optical transmission. The optional FT140 is for singlemode installations. Both scopes contain a special safety filter that protects your eyes by screening harmful infrared light. The optional LS-1310/1550 Laser Source is used for singlemode applications.

Part No.	Description	Price
414-479	FTK Basic Package	\$1,490.00
414-480	FTK Pro Package	\$1,930.00
412-682	FT140 400X Fiber Viewer	\$430.00
414-505	LS-1310/1550 Single-Mode Laser Source Kit	\$2,800.00



FLUKE
networks

FT600 FiberInspector™ Pro Video Microscope

New

10 Times Faster Than Traditional Scopes

- Easily inspects installed fiber connectors on patch panels and hardware devices
- Integrated dual-magnification camera allows quick magnification changes between 250X and 400X in a single camera probe
- Easily inspects cables and cable assemblies
- Eliminates the hazards of inspecting live fiber
- Ten times faster than traditional scopes
- New larger display provides crisp, clear images of microscopic debris and end-face damage

The Fluke Networks FiberInspector Pro™ Video Microscope put the solution for your fiber testing business right before your eyes. Now available in a dual magnification configuration, this portable video microscope works ten times faster than traditional scopes. Simply insert the probe and inspect installed fiber connectors through the bulkhead adapters without accessing the back-side of the patch panels. With dual magnification, the FT600 is the ultimate tool for inspecting multimode and singlemode applications in one easy to use tool.

Kit includes: FT650 Fiber probe, FT630 Fiber display, AC adapter/battery charger, probe adapter tips (ST, SC, FC & universal 2.5mm patch cord tip) and hard carrying case.

Part No.	Model	Description	Price
429-331	FT600	FiberInspector Pro	\$3,495.00

FT600 FiberInspector Pro		
Temperature Range	Operating: 0°C to 40°C Storage: -10°C to 60°C	
Humidity Range	Operating: 0% to 45% RH non-condensing; Storage: 0% to 95% RH non-condensing	
Certifications	CE	
FT630 Display		
Display Type	3.5 in. (9 cm) TFT, active matrix, 320 x 240 pixels	
Video Output	NTSC	
Power Source	Lithium ion or AC power	
Battery Life	2 hours continuous use	
Dimensions	4.3 in. x 9.1 in x 2.6 in (10 cm x 5.3 cm x 22 cm)	
Weight	.8 lbs (0.4kg)	
FT650 Fiber Probe		
Magnification	Low magnification: 250X High magnification: 400X	
Camera Type	0.33 in. (8.38 mm) CCD with adjustable focus	
Light Source	LED	
Lighting Technique	Coaxial	
Dimensions	1.8 in. x 1.7 in. x 5.5 in. (4.57 cm x 4.32 cm x 14 cm)	
Weight	.4 lbs (0.18kg)	



ALCOA **AFL Telecommunications**

FSM-16S Mini Fusion Splicer

- Ergonomic design for taut-sheath splicing
- Fully automatic with loss estimation

The technology in this unit provides unprecedented utility in harsh outdoor splicing environments. Altitude/pressure compensation is provided in order to assure proper arc conditions in extreme environments. The wind protector assures a stable arc in cross winds in excess of 30mph. A 5" color anti-reflective LCD monitor with an unmatched 110X fiber magnification and simultaneous X-Y view ensures excellent visibility during splicing operations. The small size, light weight, and docking-bay for power modules promote use in a variety of field scenarios. Includes splice data storage of 300 splice data records, field replacement battery, AC adapter/battery charger, case, and splice protection sleeves. 5.9 x 5.9 x 5.9", 5.9 lbs. Kit includes CT-20 fiber cleaver.

Part No.	Description	Price
420-955	FSM-16S Mini Fusion Splicer Kit	\$13,340.00





New

FLUKE
networks

OptiFiber® Certifying OTDR Packages

Certify It. Diagnose It. Document it. With the First Certifying OTDR Designed for LAN Installers.

- Certify with integrated Auto OTDR analysis, automated loss and length measurements and fiber endface inspection
- Diagnose with integrated ChannelMap, Auto OTDR and fiber endface inspection
- Document fiber with LinkWare PC data management and reporting software
- Event deadzones as short as 1 meter
- Modular design supports multimode and singlemode testing

More and more, LAN cable installers will win or lose business based on their ability to provide a whole new level of required certification, documentation and diagnostics. No solution hands you a more complete, competitive edge than OptiFiber Certifying OTDR.

OptiFiber is the first tool specifically designed to keep LAN installers on top of the latest requirements for testing and certifying fiber networks. OptiFiber integrates insertion loss and fiber length measurement, OTDR analysis and fiber connector end-face imaging to provide a higher tier of fiber certification and diagnostics. The companion LinkWare PC software documents, reports and manages all test data. OptiFiber enables contractors and private network owners of all experience levels to certify fiber to industry and customer specifications, troubleshoot short-haul connection-rich links and thoroughly document their results.

Model OF-500-01

The basic OTDR package is perfect for LAN multimode fiber networks. Short event deadzones provide enhanced vision into short-hall, connection-rich networks. Package includes: OptiFiber main frame OF500, multimode OTDR module OF-5610, LinkWare PC software.



Model OF-500-02

The advanced package incorporates a built-in optical power meter for use with a multimode or single-mode far end source. Package includes: OptiFiber main frame OF-500, multimode OTDR with power meter module OF-5611, soft protective case, LinkWare PC software.

Model OF-500-15

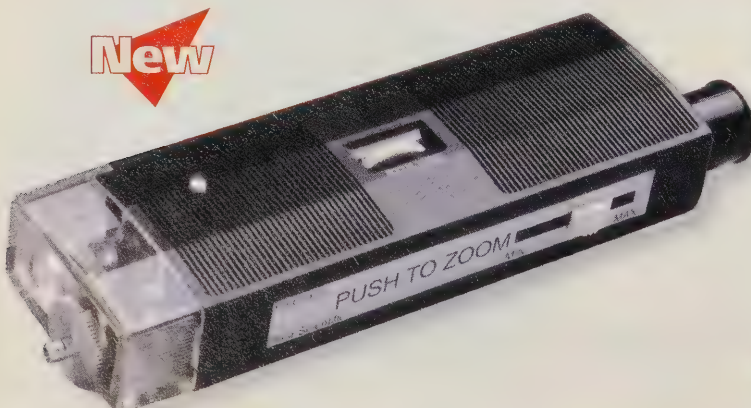
The Smart Remote package adds dual-wavelength two-fiber insertion loss-length certification of multimode fiber, with the inclusion of a Smart Remote unit for the far end of the link. Also included is a 250X/450X video microscope for inspecting fiber endfaces. Package includes: OptiFiber main frame OF-500, multimode OTDR with power meter & loss/length module OF-5612, Smart Remote with multimode option OFSR-MMREM, FiberInspector Pro OF-5352, soft protective case, hard carrying case, MMC reader, LinkWare PC software.

Model OF-500-35

This is the perfect choice for professionals needing to test and troubleshoot multimode and singlemode premise fiber networks. It provides OTDR trace and event analysis and dual-magnification fiber endface video inspection for both multimode and singlemode fibers. This package is also equipped with interfaces that provide a connection with optional OptiFiber Smart Remote units when automated dual-wavelength loss/length testing is required. All these results can be tied to one record and presented in one report. Package includes: OptiFiber main frame OF-500, multimode OTDR with power meter & loss/length module OF-5612, singlemode OTDR with power meter & loss/length module OF-5632, FiberInspector Pro OF-5352, soft protective case, hard carrying case, MMC reader, LinkWare PC software.

Part No.	Model	Description	Price
423-656	OF-500-01	OptiFiber OTDR	\$13,995.00
423-657	OF-500-02	OptiFiber Advanced OTDR	\$14,995.00
424-391	OF-500-15	OptiFiber SR OTDR	\$24,490.00
424-390	OF-500-35	OptiFiber Pro OTDR	\$29,795.00
423-662	OFCC-HCASE	Hard Carry Case	\$595.00

New

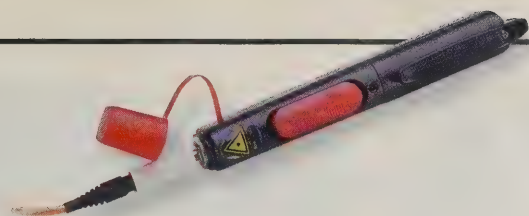


Fiber Optic Inspection Microscope

- Accepts ST, SC & FC ferrules
- Adjustable light path
- User replaceable bulb & batteries

Built-in magnification options, a laser barrier filter and an adjustable light path make this low cost fiberscope a must for any technician. Compact versatile design eliminates the need for interchangeable eye pieces or buying any extra optical pieces. It fits all standard 2.5mm connector ferrules.

Part No.	Model	Description	Price
414-202	FIB 150-200	200X MicroScope	\$189.00



Wilcom Visual Fault Locator

- Universal connector accepts any 2.5mm ferrule
- Verifies continuity of fiber before and after installation

A streamlined universal Visual Fault Locator. The new Model F6230A is a pencil style VFL that features a universal connector accepting any optical connector style with a 2.5mm ferrule. It operates on a single 1.5V AA alkaline battery keeping the overall size to a minimum while providing long battery life. VFL output is from a powerful 1mW laser at 650nm providing visibility beyond 5km. Includes a choice of continuous or modulated output and a "low battery" indicator. The universal connector eliminates the inconvenience of having to use a patch cable for direct connection to fiber under test if connector styles are dissimilar.

Part No.	Description	Price
265-003	Visual Fault Locator	\$300.00



New

EXTECH
INSTRUMENTS

Fiber Optic Test Kits

Certification Test Kits for Multimode and Singlemode

- High accuracy certification for both multimode and singlemode
- Complete dual multimode and singlemode kits
- Memory stores up to 1000 measurements and physical fiber characteristics for up to 4 sites
- Selectively view, re-measure, print or delete stored information
- Windows® compatible software and RS-232 interface downloads data or prints certification reports
- Loss Wizard™ calculates the maximum allowable loss and provides simple Pass/Fail certification

Complete kit includes power meter, multimode light source, singlemode light source, 4 patch cords with bulkheads in a hardened travel case, Windows® compatible software, DB9 serial cable, CD-ROM based graphical operation manual, certificate of calibration, two 9V batteries and alcohol wipes.

Part No.	Model	Description	Price
423-645	FO600ST2-Kit	Multimode and Singlemode ST Test Kit	\$2,850.00
423-646	FO600SC2-Kit	Multimode and Singlemode SC Test Kit	\$2,850.00



403-245



414-505



403-246

FLUKE
networks

Fiber Optic Power Meter & Optical Sources

- An inexpensive alternative
- Small and lightweight

Turns your DMM into an optical loss tester at a fraction of the cost. No need to buy a whole new set of expensive fiber test meters. Helps to detect bad connections, bad splices, and mismatched fiber types. Easy-to-use; simply plug the **Fiber Optic Power Meter** into your DMM, set the range to millivolts, connect an **Optic Source** for multi-mode or **Laser Source** for single-mode to the other end of the fiber, and read the results to verify the performance. FOM & FOS; 9V battery included. 4.5 x 2.5 x 1.5", 5 oz.

Single Mode Laser Source

The LS-1310/1550 dual laser source provides an accurate measurement of single-mode fiber link loss at both wavelengths and extends the capability of the Fluke DSP Series Cable Testers, OneTouch and DMMs. Its lightweight and heavy-duty design make it very rugged for field use. Kit includes Laser Source, two ST-ST single-mode patch cords, ST-ST single-mode fiber optic adapter and hard carrying case. 9V battery included. 6.8 x 3 x 1.5", 9.4 oz.

Part No.	Description	Price
403-245	Fiber Optic Meter, ST Connector	\$299.00
403-246	Fiber Optic Source, 850/1300nm, ST	\$499.00
317-053	Fiber Optic Source, 850nm, ST	\$199.00
414-505	LS-1310/1550 Single-Mode Laser Source Kit	\$2,800.00
317-016	ST/ST Fiber Optic Adapter	\$25.50



**For replacement batteries,
see page 437**



New

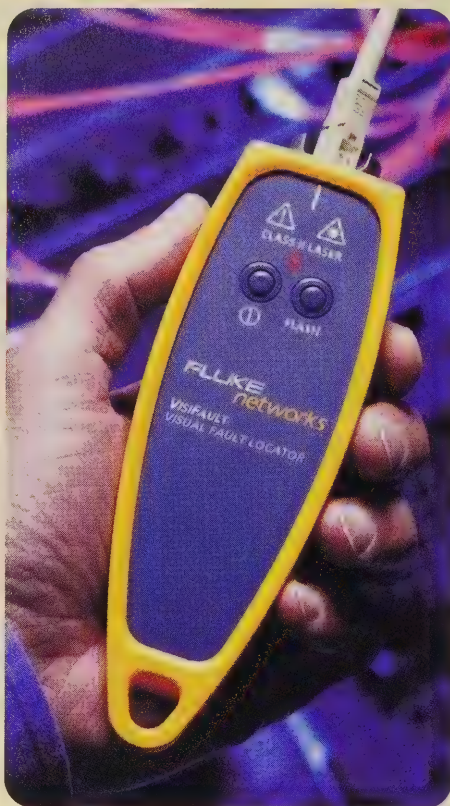
FLUKE
networks

VisiFault™ Visual Fault Locator

Speeds Fiber Tracing and Identification

- Bright red visual laser light source
- Accelerates end-to-end fiber continuity checks
- Simplifies fiber polarity verification
- Aids in location of fiber faults
- Features continuous & flashing modes
- Rugged case survives drops, impacts & vibrations
- Connects to 2.5mm standard & 1.25mm SFF connectors
- Over 80 hours of battery life with 2 AA batteries
- Handy lan yard attachment & carrying case

You can diagnose and repair simple fiber link problems with Fluke Networks' VisiFault™ Visual Fault Locator (VFL). The laser-powered VisiFault locates fibers, verifies continuity and polarity, and helps find breaks in cables, connectors and splices. Continuous and flashing modes make for easier identification. Compatible with 2.5mm and 1.25mm connectors for easy connection. Ruggedly constructed for demanding field-testing. Long battery life for hours of use.



Part No.	Description	Price
424-394	VisiFault	\$275.00

Specifications		
Optical		
Fiber Compatibility	Multimode & singlemode	
Wavelength	650nm (visible wavelength)	
Laser Safety Rating	Class II	
Output Power	1.0 mW max	
Output Modes	Continuous (steady) & flashing (2-3 Hz pulsed)	
Range	3 km multimode, 4 km singlemode	
Environmental & Mechanical		
Operating Temperature	0°C to 40°C	
Storage Temperature	-20°C to 60°C	
Relative Humidity	95% (10 to 35°C)	
Vibration	Random, 2g, 50-500 Hz	
Shock	1m drop onto all corners & face	
Altitude	3000m	
General		
Dimensions	157 x 52 x 37 mm (6.2 x 2.0 x 1.3 in.)	
Weight	0.18kg (5.7 oz.)	
Adapter	2.5mm universal	
Adapter Cap	Tethered protective end cap	
Controls	On/off, continuous/flashing	
Battery Type	2 x AA	
Battery Life	>80 hours in continuous mode	
Safety	CSA C22.2 No. 1010.1 1992, EN 61010-1, CE	
Carrying Case	Soft-sided w/belt loop	



Megger

Cross Checking Reflectometer

- Specifically for multimode premise datacom fiber and with a Duplex option available.
- Easy to set up and use with a range of conveniently packaged patchcords.
- Less than 1 meter resolution, minimal deadzone and >13dB dynamic range.
- Brilliant color display, full keyboard and barcode reader option.
- Splash proof, dust proof and rugged.

The XC-850 is a new concept in the evolution of Optical Time-Domain Reflectometers (OTDRs). Designed specifically for the requirements of the premise datacom installer, features associated with complex telecommunication OTDRs have been eliminated and many new features added.

The XC-850 measures fiber loss and connector loss of the datacom links automatically and quickly. It stores the results for later use, and establishes the cause and precise location of any faults. This cannot be achieved using other techniques such as a light source and power meter. The unit is controlled through six "soft" control keys at the side of the screen. Data entry is through a built-in keyboard or barcode reader and the measurement cursors are positioned by a 2-axis controller.

Power comes from a rechargeable battery that provides for a 10 hour working shift even with the display backlight on. Recharging is through an external charger that may be connected to a main supply outlet or a vehicle cigar socket.

Accessories included with the unit above:

- 16MB Smart storage card.
- Main battery charger/power supply
- PC Configuration Manager software
- User Manual
- Megger Guide to LAN Fiber Measurement
- Travel bag (Holds XC-850, multiple patchcord boxes, charger, documentation folders and plenty of other tools.)

Part No.	Description	Price
420-780	Cross Checking Reflectometer	\$6,889.00



HiLite Visible Fault Finder

- 650nm Laser Source
- Universal Connector Interface
- High Power (1 mW)

A compact and powerful visible red laser source designed to troubleshoot faults on fiber optic cables. Light generated by the HiLite will escape from sharp bends and breaks in jacketed or bare fibers, as well as poorly mated connectors which allows identification of faults in fiber optic jumper cables, distribution frames, patch panels, and splice trays. Other applications include locating faults in OTDR dead zones, end-to-end continuity checks, identifying connectors in patch panels, and identifying fibers during splicing operations. The universal connector interface provides fast operation with many connector styles without changing an adapter.

Part No.	Description	Price
76-020	HiLite Visible Fault Finder	\$289.00



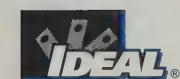
FISKARS®

Our Best Fiber Optic Shears

- Micro serrations
- Graduations for quick measurements

Designed to hold up to the abuse of cutting extremely hard Kevlar strength members found in fiber optic cables. Most shears not designed to this purpose last a short time, providing poor service soon after purchase. Micro serrated and high strength cutting edges provide many times the service life of other cutters, without high cost. High visibility, bright orange handles are spring loaded with rubber inserts for control and comfort.

Part No.	Description	Price
51-924	Fiber Optic Shears	\$27.85



MiniLite-Strip™ Optical Fiber Stripper

- Lightweight, compact design for easy handling
- No field adjustment necessary

A precision optical fiber stripper that includes two V-notch blades. The large V-notch blade removes the outer jacket insulation while the small V-notch blade removes the buffer and coating from 125 fiber. Made with durable steel construction and a cushion-grip handle for operator comfort. The fluorescent orange color allows for easy identification on the job site and in a tool pouch.

Part No.	Description	Price
415-681	MiniLite-Strip Optical Fiber Stripper	\$36.05



WAVETEK

Fiber Optic Visual Fault Locator

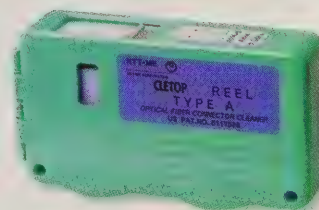
- Finds breaks fast
- Checks continuity

Uses a high power laser to inject visible light into any ST terminated fiber cable. If there is a break in the fiber the light will spill out and be visible, even through the jacket. If you can see the light at the far end you know the cable has no breaks. Works on cables up to three miles long. Housed in a rugged aluminum case. Comes with carrying case, lanyard, lens cap, two AA batteries and manual.

Part No.	Description	Price
624-612	VFF5 Fiber Visual Fault Locator	\$399.95



For replacement batteries, see page 437

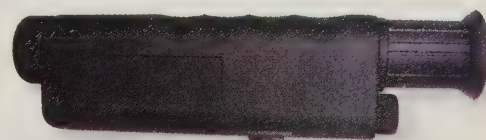
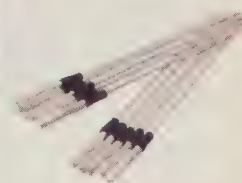


Cletopt Optical Fiber Connector Cleaner & Swabs

A completely self-contained system for cleaning optical fiber connector ferrules. A special lint-free fabric-on-a-reel quickly cleans ferrule endfaces of dust, oil and other contaminants without the need for alcohol. One cleaning reel can be used for over 400 ferrule cleanings.

The 2.50mm Cletopt stick is specially designed to clean the optical fiber connector face free from any foreign particles to ensure maximum signal transfer. Swabs are 6" long and come in a package of 200.

Part No.	Description	Price
379-001	Cletopt Optical Fiber Connector Cleaner	\$145.00
379-002	Cletopt Replacement Reel	\$44.95
419-399	Cletopt Stick 2.50mm Case (200 swabs)	\$199.95

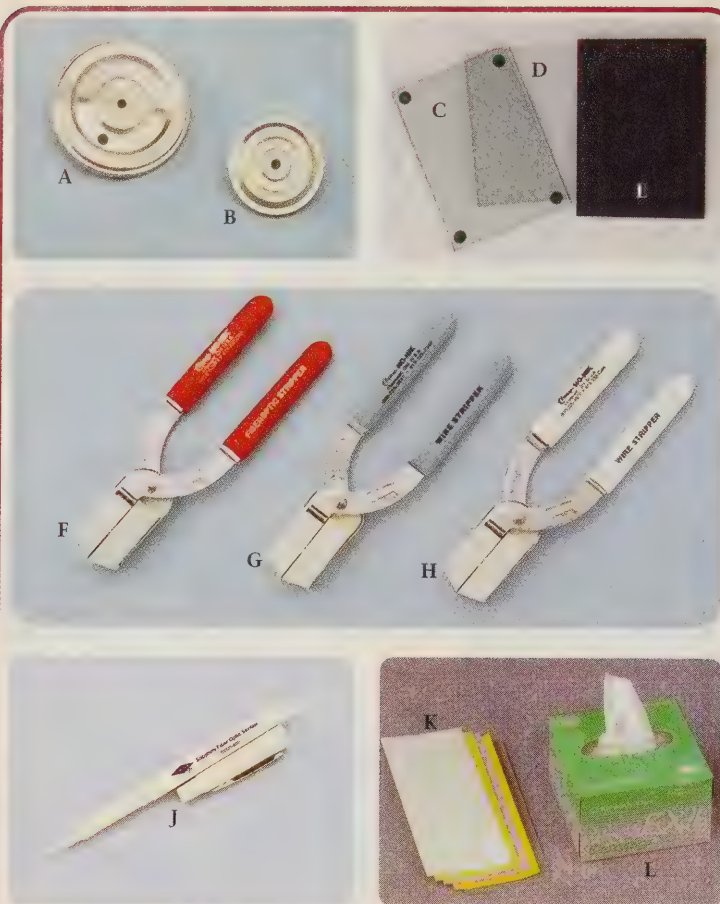


Fiber Inspection Microscope Kit

Dual Illumination Provides Both Oblique and Coaxial Views

Made from tempered steel, this rugged 200X scope is one of the most durable on the market today. Truly unique is the user selectable Coaxial and Oblique lighting via a rocker switch on the scope body. Also included is a universal 2.5mm adapter that makes the unit compatible with ST, SC and FC connectors. Batteries included.

Part No.	Model	Description	Price
423-651	FM-HM-1	Fiber Inspection Microscope Kit	\$190.00



High Quality Fiber Optic Tools

Cut, strip, crimp, polish and inspect fiber optic terminations.

Polishing Pucks and Plates

Part No.	Key	Description	Price
80-734	A	ST Polishing Bushing	\$71.80
80-730	B	FC/PC Polishing Puck	\$65.55
1-779	C	Glass Plate	\$10.20
634-250	D	Plexiglass Plate	\$11.20
634-375	E	Foam Plate	\$8.15

Strippers from Clauss

Part No.	Key	Description	Price
118-823	F	No-Nix Stripper, 125-150µ	\$42.45
118-808	G	No-Nix Stripper, 159-200µ	\$41.85
4-303	H	No-Nix Stripper, 200-250µ	\$41.85

Scribers

Part No.	Key	Description	Price
262-600	J	Sapphire Scribe 60°	\$51.00

Film Sleeves

Part No.	Key	Description	Price
712-538	K	Polishing Film, .3 Micron, 100/pk.	\$79.60
712-501	K	Polishing Film, 1 Micron, 100/pk.	\$79.60
712-503	K	Polishing Film, 3 Micron, 100/pk.	\$79.60
712-512	K	Polishing Film, 12 Micron, 100/pk.	\$79.60
712-515	K	Polishing Film, 15 Micron, 100/pk.	\$79.60
95-255	L	EX-L Disposable Wipes, 280/pk	\$4.05



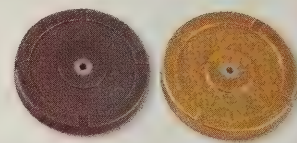
Clauss Safety Mat

Proper disposal of fiber shards is an important safety item. This 22" x 14" mat allows the installer to easily find and dispose of fiber scraps which have fallen onto the work area. The pad's finish also prevents fiber shards from ricocheting out of the work area, providing an additional measure of safety.

Part No.	Model	Description	Price
427-144	FS100	Safety Mat	\$6.00

Polishing Fixtures

- Singlemode & Multimode applications
- Wet or dry polishing



Introducing two New Generation polishing disks. These extremely affordable fiber polishing jigs exhibit less wear than many other polishing disks on the market, yet are priced less than most. **190-213** has a long lasting vapor deposited Diamond coating and **191-489** is Titanium coated and will not leave metallic contamination behind. Both are universal for ST/SC/FC applications and have a large diameter lightweight aluminum base for a comfortable feel. They withstand the abuse of aluminum oxide, silica based and diamond lapping films with no appreciable reduction in working surface.

Part No.	Description	Price
190-213	Diamond Coated Polishing Fixture	\$71.40
191-489	Titanium Coated Polishing Fixture	\$47.95

TECHSPRAY

Fiber Optic Cleaning Kit

- Fiber Preparation Kit

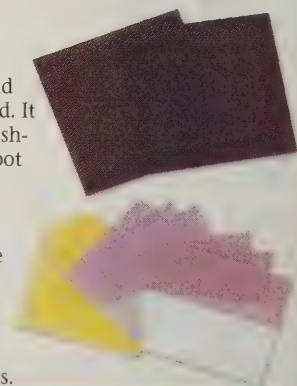
Multi-purpose kit removes contaminants from fiber optics. Kit includes: one, 2 oz. bottle of isopropyl alcohol, twenty-five pre-sat alcohol wipes, one 10 oz. air duster aerosol, 50 foam tip swabs, 30 cotton swabs, and 25 4"x4" polyester wipes.



Part No.	Model	Description	Price
416-767	1602-K	Fiber Optic Cleaning Kit	\$28.75

Polishing Plate and Film

191-459 is a non-skid fiber optic smoked and hardened acrylic polishing plate and curl free pad. It is ultra smooth and long lasting, and acrylic polishing plates are shatterproof and make it easy to spot clear fiber. **191-461** is two step, 3 and 0.3 micron polishing film and **191-709** is two step, 1 and 5 micron polishing film. Both allow user to do a rough and a finish polish while using the same film. They come in a package of 25 sheets. **191-381** is the Royal Finish, less than 1 micron finish polishing film. This is an ultra fine finish suited for GigaBit applications that demand a scratch-free finish. Comes in package of 25 sheets.



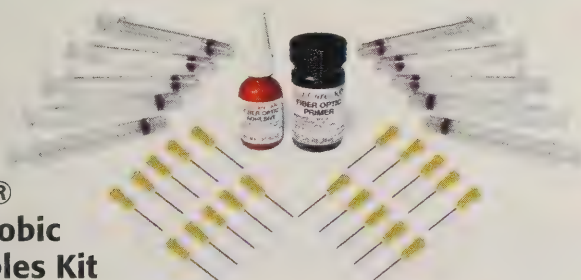
Part No.	Description	Price
191-459	Polishing Plate & Curl Free Pad	\$20.80
191-461	2-Step 3 & 0.3 micron polishing film 25/pk.	\$20.40
191-709	2-Step 5 & 1 micron polishing film 25/pk.	\$20.10
191-381	Royal finish <1 micron polishing film 25/pk.	\$20.40



Master Epoxy Consumables Kit

Consumables needed for the JTK-26 and JTK-18. This kit contains 100 sheets of 1 Micron Film, 100 sheets of 5 Micron Film, (2) 6-packs of Epoxy, 100 Wipes, 10 Syringes, and 10 Needle Tips.

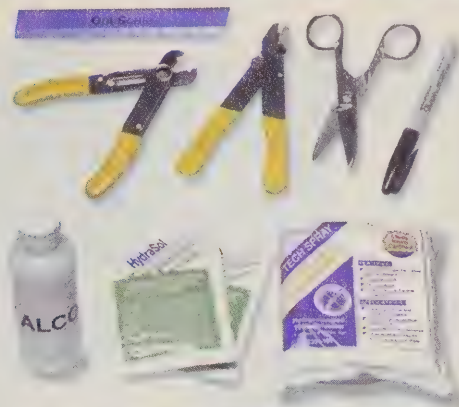
Part No.	Description	Price
418-836	Master Epoxy Consumables Kit	\$229.50



FiberSure® 100 Anaerobic Consumables Kit

Consumables that supplement the JTK-26 and JTK-18. This kit contains 1 bottle of FiberSure Primer, 1 bottle of FiberSure Adhesive, 10 Syringes and 20 Needle Tips.

Part No.	Description	Price
418-837	FiberSure 100 Anaerobic Consumables Kit	\$93.85



Multi-Purpose Splice Kit

Allows For a Variety of Splices From Different Vendors

The installer can now splice a majority of the mechanical and fusion splices that are available today. This unique and versatile kit contains the proper tools and consumables needed to splice the 3M Fibrlok, the Siecor CamSplice, the AMP Corelink, the Ultra Splice and many others. The Fitel Cleaver is included for achieving 90 degree angle cleaves. The proprietary 3M Fibrlok and Siecor CamSplice assembly tools are also included. Comes with a carrying pouch.

Part No.	Description	Price
418-835	Multi-Purpose Splice Kit	\$1,520.00

JTK®-27

Fusion Splice Kit

Fiber to the Home (FTTH) Singlemode & Multimode

Comprehensive portable fusion splice kit contains all the necessary tools that make it ideal for harsh field environments and FTTH applications. The JTK-27 is self-contained in a ruggedized hard shell case that contains everything you need to fusion splice in the field.

Case lid is removable and can be used to store hand tools while repairs are made. Fusion Splicer, precision cleaver & shrinkable protection sleeve oven can be used while remaining in the case, assuring cleanliness and ease of operation. Fiber holders for 900 and 250 micron configurations are included. Visual fault locator uses a 650 nm laser light with a range of 6-7 KM single mode and 4-5 KM in multimode. Splicer features a CCD camera and color LCD monitor which displays a clear magnified image. Estimated loss read-out information is also present. One year warranty.

New



JTK®-27 Tool Collection

Alcohol Pads (10)	Fiber Holder 250um	Safety Glasses
Alcohol Pump Dispenser	Fiber Holder 900um	Splice Protector Sleeve (25)
Belt Loop Tool Roll	Fusion Splicer AC Adapter	Splice Protector Sleeve heater
Card Cleaner	Fusion Splicer Battery (2)	Strap
Case	Fusion Splicer Battery Charger	Stripper; Buffer Jacket
Cleaver, High Precision	Fusion Splicer, Hand Held	Stripper; Outer Jacket
Debris Bottle	Kevlar shears	Tape Measure; 12ft
Electrical Tape, Black	Manual	Tweezers
Electrical Tape, Blue	Marker, Black	Visual Fault Locator
Electrical Tape, Green	Marker, Red	Wipes, 4X4" (100)
Electrode Cleaning Disk	Parts Box; 6-Chamber	
Electrodes (2 sets)	Ruler, inch/metric, 6"	



Part No.	Description	Dimensions L x W x H	Kit Price
JTK-27	Fusion Splice Kit	22.5 x 21.5 x 7"	\$10,625.00



JTK®-18

Universal Fiber Termination Kit

- Terminates Epoxy, Hot Melt & Anaerobic style connectors
- Works with 100's of connectors
- Accommodates Singlemode & Multimode Connectors

This Universal Fiber Termination Kit contains a unique dual-purpose Quick-Temp® Oven which accommodates hot melt connectors on one side, and Epoxy-Cure connectors on the other side. Also included are two crimp tool frames, four precision dies and all the components and consumables necessary to terminate hundreds of different fiber optic connectors. This includes ST, SC, FC & LC from many different manufacturers. This very versatile kit comes complete in a hard shell case for easy transportation to the work site. Detailed instruction manuals are included to assist you in making quality terminations. One year warranty.

JTK®-18 Tool Collection

Alcohol Bottle	FiberSure 100 Adhesive	Ruler
Alcohol Pads	FiberSure 100 Primer	Safety Glasses
Buffer Stripper	Holder Handles	Saf-T-Stand
Canned Air	Jacket Stripper	Scribe
Crimp Dies (4)	Manuals	ST & Universal Holders
Crimp Tools (2)	Marker	Syringes
Cure Adapters	Masking Tape	Templates
Curing Clips	Microscope 100X	Tool Roll
Debris Container	Needle Tips	Utility Pouch
Dual Purpose Oven	Parts Boxes (2)	Water Bottle
(14 ports)	Polishing Film 1 & 5 Micron	Wipes
Electricians Scissors	Polishing Pad	
Epoxy	ProFixture Polishing Tool	

Part No.	Description	Dimensions (L x W x D)	Weight (Lbs.)	Kit Price
JTK-18	Universal Fiber Termination Kit	21-1/2 x 16-1/2 x 7-1/4"	20	\$2,155.00

New



JTK®-26

Basic Fiber Termination Kit

- Anaerobic Fiber Termination Kit for ST/SC & LC Connectors
- Accommodates Singlemode & Multimode Connectors
- Low Cost & Lightweight

A complete fiber-optic-connector installation tool kit that uses an anaerobic adhesive for permanent low loss terminations and the ability to use various manufacturers connectors. All necessary tools and consumables are included to properly terminate your fiber optic cable. A step-by-step manual is also included to carefully guide you through the process. One year warranty.

JTK®-26 Tool Collection

Alcohol Bottle	Micro Torch	Safety Glasses
Crimp Dies	Microscope 100x	Scissors
Crimp Tool	Needle Tips	Scribe
Debris Bottle	Parts Box	Soft-Sided Case
FiberSure 100 Adhesive	Polishing Film .1, 1 & 5 Micron	Stripper Buffer-Jacket
FiberSure 100 Primer	Polishing Fixtures	Syringes
Instruction Manual	Polishing Pad	Water Bottle
Marker		Wipes

Part No.	Description	Dimensions L x W x H	Weight (lbs.)	Kit Price
JTK-26	Basic Fiber Termination Kit	15 x 12 x 6"	7	\$820.00



Handheld Digital Signal Level Meter

- Autoranging attenuator
- Backlit LCD graphic display
- FM demodulator provides audio output

The ST5128 uses RF signal processing techniques and microprocessor technology to produce quick and accurate signal measurements. The meter provides the user the choice of viewing individual channel power readings, a single channel spectrum, a multiple channel spectrum, or an all channel spectrum. Automatic internal calibration corrects for measurement variations due to frequency response, temperature changes, and internal attenuator settings. The combination of keypad tuning and menu driven displays allow for simple operation to get needed signal measurements. The meter is programmed with both USA CATV and VHF/UHF NTSC standard formats. Specific frequencies for signal testing can be user selected. Includes rechargeable batteries and AC charger.



Frequency Range	46MHz to 860MHz
Frequency Stability	<30 ppm
Frequency Accuracy	15kHz
Tuning Increment	10kHz
I.F. Bandwidth	300kHz
Input Range	-40dBmV to +60dBmV
Input Impedance	75 ohms

Part No.	Description	Price
200-001	Digital Signal Level Meter	\$895.00

Digital Signal Level Meter

- NTSC (6 MHz.) Channel Level Measurements
- Backlit LCD graphic display

The ST-5120 uses RF signal processing techniques and microprocessor technology to produce quick and accurate signal measurements. It provides full channel operation with CATV: CH 2-135, Off-Air: CH 2-78 or Direct Frequencies. Automatic internal calibration corrects for measurement variations due to frequency response, temperature changes, and internal attenuator settings. Keypad allows for easy navigation of frequency selections and scrolling of channels. It features an adjustable volume range, a wide dynamic range, and a backlit LCD display for easy viewing in dark areas. Includes 8hr. rechargeable NiMH battery, AC charger, and soft case.



Input Frequency	46-870 MHz
Accuracy	±2.5dB
Min. Tuning Increment	50 KHz
I.F. Bandwidth	230 KHz
Input Range	-35 to +60 dBmV

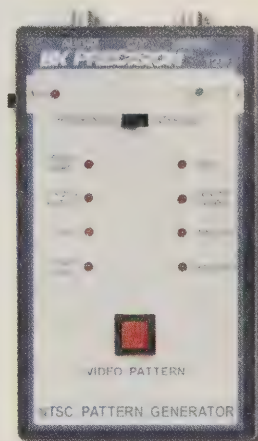
Part No.	Description	Price
418-826	ST-5120 Digital Signal Level Meter	\$595.00

BK PRECISION

Handheld TV Pattern Generator



Portable NTSC Pattern Generator with S-Video, Composite Video and Audio outputs. This handheld NTSC Pattern Generator is powered by a 9 volt battery providing NTSC color bars, cross-hatch, dot, staircase, circle, center cross, windows, and a full range of color raster patterns, including black and white. The available outputs are composite video and audio via two RCA connectors or an S-Video mini-DIN output. Signals can be produced as an interlaced or progressive scanning mode. No Modulated RF signal is provided.



Part No.	Description	Price
416-229	1257 NTSC pattern generator	\$199.00
473-005	9V Battery	\$2.85

Test-Um Inc.

Test-Um Satellite Finder

The CS300 Satellite Finder signal strength meter is a simple device used to maximize a satellite signal between the LNB amplifier and the receiver. It is easy to use and very inexpensive. Perfect for installing and setting up direct satellite systems.

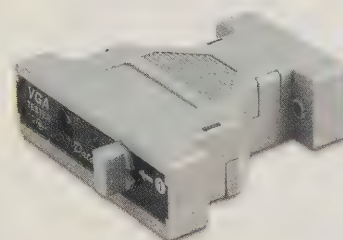


Part No.	Model	Description	Price
420-903	CS300	Satellite Finder	\$29.95

VGA-Plus Computer Monitor Tester

- Extremely portable
- Extended burn-in capabilities

The VGA-Plus is a compact and versatile computer monitor tester. With 16 switch selectable functions, you can diagnose, repair and test all VGA type monitors, projectors, LCD displays and video capture equipment without the need of a computer. The VGA-Plus will test for Purity, Blank Raster, High Voltage Regulation, Pincushion, Convergence, Linearity, Color Balance, Sync Rate and provides sequencing functions which allow extended burn-in testing for Fixed Scan, Multi Scan or Multi Scan with Power Cycling (Energy Star/Nutek compliant monitors). The tester is equipped with a DC power jack and has a 15-pin high-density female D-Sub connector. The unit measures 2.25 x 2.18 x .65" and is powered with a 9-volt battery not included.



Part No.	Description	Price
269-001	VGA-Plus Computer Monitor Tester	\$80.60



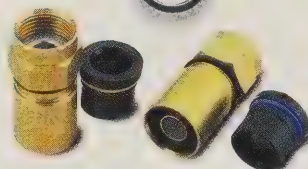
Thomas & Betts

Snap-N-Seal® Installation Tool & Environmentally Sealed Connectors

- Minimizes signal leakage
- Perfect for outdoor & indoor applications

Snap-N-Seal® connectors are environmentally sealed to protect drops from harsh environments. Through a unique 360° compression process, Snap-N-Seal® connectors also offers signal leakage protection required for today's demanding systems. The IT1000 includes a built in stripper to prepare the cable and the crimper to properly install the connectors.

Part No.	Description	Price
462-125	IT1000 Crimp/Strip Tool	\$88.30
462-126	RG6 Snap-N-Seal® "F" Connectors, 50/pk.	\$38.35
462-127	RG6QS Snap-N-Seal® "F" Connectors, 50/pk.	\$32.50
462-128	RG59 Snap-N-Seal® "F" Connectors, 50/pk.	\$37.95
462-129	Replacement Blade	\$16.85



**For replacement batteries,
see page 437**

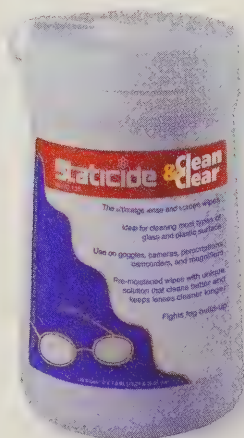
ACL Staticide®

Staticide® Clean & Clear Optical Wipes

**Quickly Removes Dust, Oils
and Contaminants**

Cleans most types of glass, plastic and lenses including microscopes, magnifiers, goggles, cameras, binoculars, and camcorders. 135 pre-moistened wipes (6" x 7.5") per canister.

Part No.	Model	Description	Price
418-504	CCW135	135 Wipe Canister	\$12.20



31-Piece Coax Adapter Kit

- Make any adapter you need
- Tested to 1GHz
- High content silver and gold plating



RG-58 cable
not included

Part No.	Description	Price
701-300	Coax Adapter Kit, 31 pc.	\$170.00
701-048	RG-58 Cable, 4', accepts adapters both ends	\$19.95
701-320	Adapter Connector, connects any two adapters	\$6.25

PocketToner 2™

- Designed for CATV, Telco, LAN, and low-voltage Security Industries
- No need for multiple tools

A cable termination-testing device with one port for the cable lead and an audible sounder for tone verification. It also contains an LED light indicating DC shorts, cable splitters, and other self-grounding devices. Technicians can test circuit integrity in new or installed cable runs with an audible tone that identifies the line carrying the signal. Female thread connection allows for quick removal of male F connectors and easy change-out of multiple adapters.



Part No.	Description	Price
412-286	PocketToner 2 Kit	\$89.95
454-003	PocketToner 2	\$31.15
412-288	Pocket Toner2 RJ45 Adapter	\$10.50



Audio-Video Patch Cord Testers

Housed in a durable metal box, tester checks continuity of a wide variety of audio and video cables used in broadcasting industries. Powered by AA batteries included.

	XLR	1/4"	3.5mm	RJ11	Svideo	BNC	F	RCA	T-T	Midi	
CT-7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Part No.	Description										Price
111-007	CT-7 Audio-Video Cable Tester										\$244.80



CATV Tone Test Kit

- For CATV, video technicians
- Trace and ID CATV Cables
- Tones through splitters

Designed for technicians installing and maintaining CATV and CCTV cabling. Identifies unidentified or mis-tagged drops. Transmitter injects tone onto any coax terminated with an F connector or use the adapter to connect to distribution cables or twisted pairs: sends signal through splitters, traps, and directional couplers. Indicates continuity and presence of voltage on the line. Receiver can pick up the tone on terminated and unterminated or shorted cables, a direct connection is required in the presence of passive devices. Kit includes tone generator, tracer, F-to-F cable, F-to-alligator clips cable and case. Requires two 9V batteries sold separately.

Part No.	Description	Price
180-229	402K CATV Tone Test Kit	\$147.15
473-005	9V Battery	\$2.85



**For replacement batteries,
see page 437**

New



Test-Um Inc.

Test-Um Coax Mapper

Ideal for CATV and security camera coax connection testing and installation. Finds and identifies multiple coax cables. Includes 4 color-coded F-connectors and BNC adapters. Comes with built-in tone generator.

Part No.	Model	Description	Price
420-904	CX200	Coax Mapper	\$39.95

Megger®

Handheld TDR

- Perfect for Telecom, CATV, wireless and power cables
- Large easy-to-see display

This battery powered, handheld TDR can identify many types of faults on any cable consisting of at least two insulated metallic conductors. It has internal matching networks of 25, 50, 75 and 100 Ohms. The balance and velocity of propagation controls allow you to closely match any cable. It has a measurement range of 30 to 9000' with resolution of four inches. The unit autoranges around the cursor giving the best view of the fault. The large back lit display is easy to read. Includes case, leads, manual and 6 AA batteries. 9" x 4.5" x 1.9", 1.3 lbs.

Part No.	Mfr. No./Description	Price
293-501	510E TDR	\$1,450.00



Megger®

General Purpose TDR

- Dual input and output ports
- 15 memories

An advanced TDR for identifying cable faults. Use it on telephony cables and graphically view any faults or line activity such as opens, shorts, taps, branches, load coils, transformers, capacitor networks, splices, water saturations and crosstalk in a range up to 48,000' (16km). It is completely adjustable, so even minor faults far out on the cable can be identified. With dual ports and 15 trace memories, you can perform comparative tests. RS232 port and included software lets you print or download your trace memories. Includes case, test leads, manual and six AA batteries. 9.8" x 7.9" x 4.3", 3.3 lbs.

Part No.	Description	Price
293-535	CFL535E TDR	\$2,795.00





RF-3201 2GHz Field Strength Analyzer

Portable, Powerful and Precise

- Phase lock loop for precise tuning
- Menu driven ease of use
- RS-232 interface
- Up to 160 channels scanned and displayed

A powerful tool for telecommunications, cable TV, satellite and radio industries. Receives and measures signals of wide and narrow band FM, AM, and single side-band. Frequency range is 100kHz to 2060MHz. Measures frequency, displays spectrum of signal, measures level of signal in dBm and dBu. Displays single channel, multi-channel and two channel difference. Scans channels and will output audio through built-in speaker. 50Ω input, BNC connector or detachable antenna. Its backlit LCD screen offers graphical output and access to the set-up and measuring menus. Comes complete with 9" detachable whip antenna, RS-232 cable, carrying case, and six AA batteries. 9 x 4 x 1-3/4", 1.4 lbs.



For replacement batteries, see page 437

Part No.	Model	Description	Price
409-534	RF-3201	2GHz RF Field Strength Analyzer	\$1,935.00
338-007	61-902	RS-232C Cable/RF3201	\$74.95

Specifications	
Frequency Range	100kHz to 2060MHz
Frequency Step	5kHz to 6MHz in multiples of 5kHz and 6.25kHz
Frequency Accuracy	± 25 ppm
Max Input Voltage	5Vrms
Level Measurement Range	-10dBm to 40dBm ± 0.5dBμ
Frequency Counter Bandwidth	9MHz to 2060MHz resolution to 1kHz
Input Sensitivity	9MHz to 2060MHz = 120mV 50MHz to 1500MHz = 50mV 2MHz to 2800MHz = 500mV

LEADER

NTSC Waveform Monitor/Vectorscope

- Simultaneous/overlaid displays
- Full raster line select
- Line select presets
- Easy DG/DP measurements
- Remote control
- Universal power supply (48-440 Hz, 90-250 VAC)
- DC operation standard (11-20 VDC)



Combining the standard features of a waveform monitor and vectorscope in a single half-rack package, Model 5872A adds a number of powerful measuring advantages. Among these are the ability to overlay waveform and vector displays from two input signals for precise level, timing and phase matching. A x5 vertical gain multiplier, 200 ns/major division fastest time base and wide-range centering controls permit close inspection of all parts of the waveform for high resolution adjustments. The use of the decoded R-Y signal facilitates easy, high-resolution measurements of differential phase and gain. Chroma and IRE filters may be inserted on a full-time or line-shared basis.

Full raster line select with lines chosen from Fields 1/3, 2/4 or ALL is standard. Field and line numbers appear on screen and a strobe is added to PIX MON OUT signals to highlight the selected line(s). Full waveform and vector manipulation is available in the line-select mode. Memory storage of up to 9 resettable field/line numbers provides instant recall for routine tests. Provision is made for remote control, including recall of line presets.

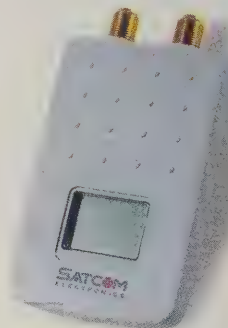
The unit employs a switching mode power supply that accepts 90-250 VAC, 48-440 Hz to operate in any locality where AC power is available. In addition, DC power is standard and vehicle or battery power at 11-20VDC is accepted. A battery mounting bracket, LC-2222, is available for battery operation from a BP-90 type battery.

Part No.	Model	Description	Price
122-778	5872A	Waveform Monitor/Vectorscope	\$4,995.00

Digital Satellite Seekers

- For all DBS/TVRO applications

Connects to any satellite antenna and finds the strongest satellite signal quickly and easily with no adjustments necessary. Features an easy-to-read numerical LCD display and dual high and low readings. Input frequency range is 900 MHz to 2000 MHz, maximum voltage input is +30 VDC, and resolution is 1/10 dB. Compact size of 2.25 x 3.75 x .5" fits easily in shirt pocket.



Part No.	Description	Price
197-003	Digital Satellite Seeker	\$61.15

Degaussing Coil

- For all color CRT service

Useful in eliminating "color spots" on CRT displays, required before purity adjustments. High-density alternating magnetic field emanates from durable, high-impact plastic housing. Spring-loaded switch in grip helps prevent accidental turn-on. 13" diameter, 8' cord.



Part No.	Description	Price
123-155	Degaussing Coil	\$57.43

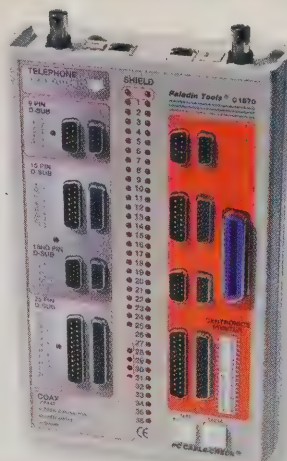


Paladin Tools

PC Cable Checker

- Portable, battery-powered convenience
- Quickly troubleshoot computer cables

Tests and checks the pin-outs of a wide variety of cables used in Intel-based computers. Checker sequences wire-by-wire, showing exactly how cable is wired. Quickly determines whether a cable is good, or how it is wired for duplication. Powered by one 9V battery included.



Part No.	Description	Price
400-473	1570 PC Cable Checker	\$165.00

Connector	PC Cable Checker
DB-9, 15, 25	✓
VGA 15	✓
Centronix 36	✓
USB	✓
BNC coax	✓
RJ-11/RJ-45	✓
HDI-30 (PowerBook)	✓

For replacement batteries, see page 437



THRULINE® RF Directional Wattmeters

- The industry standard in wattmeters

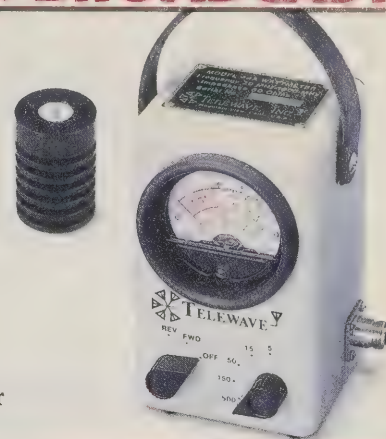
Model 43 Thruline Wattmeter accurately measures forward or reflected power in coaxial transmission lines under any load condition. High-precision wattmeter inserts between the transmitter and load. Plug in elements (sold separately) determine the power rating and frequency range. Rotate element to read forward or reflected power. Shock-mounted meter with 25, 50 and 100 scales, permits full-scale power reading from 100mW to 10,000W with appropriate element installed. Type-N connectors. Frequency range 450Khz - 2.7Ghz with appropriate element installed. Elements sold separately below.

Part No.	Mfr. No./Description	Frequency Range	Watts	Price
258-004	43 Thruline Wattmeter	N/A	N/A	\$329.00
258-007	50C Element for 258-004	100-250Mhz	50	\$81.60
258-008	25D Element for 258-004	200-500Mhz	25	\$81.60
258-009	50D Element for 258-004	200-500Mhz	50	\$81.60
258-010	5E Element for 258-004	400-1000Mhz	5	\$81.60
258-011	10E Element for 258-004	400-1000Mhz	10	\$81.60
258-012	25E Element for 258-004	400-1000Mhz	25	\$81.60
258-013	50E Element for 258-004	400-1000Mhz	50	\$81.60
419-614	CC6 Carrying Case	—	—	\$119.95



RF Watt Meter

- 25-1000MHz or 2-200MHz
- 5, 15, 50, 150, 500W ranges
- Forward and reflected power
- ±5% accuracy



Part No.	Description	Price
781-044	Low Frequency RF Watt Meter 2-200MHz	\$631.50
781-444	Broadband RF Watt Meter 25-1000MHz	\$714.95
781-600	60W Dry Dummy Load	\$99.95
781-445	Carrying Case for Meter and Load	\$92.30

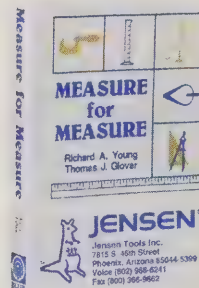
JENSEN®

Measure for Measure Conversion Factor Handbook

First Edition By Richard A. Young
and Thomas J. Glover

- Contains over 39,000 Conversions
- More than 5100 different units.
- Comprehensive SI reference (the International standard)

This handbook has been designed specifically for engineers, scientists, teachers, students, and industrial maintenance workers. Chapters are included on Base Units, SI (System International), equivalent units, formulas, physical constants and definitions. Contains thousands of foreign and ancient conversion factors. The conversions are accurate to 8 significant figures and the values are listed in both standard and scientific notation. 4" x 6" x 1", 864 pages, softbound.



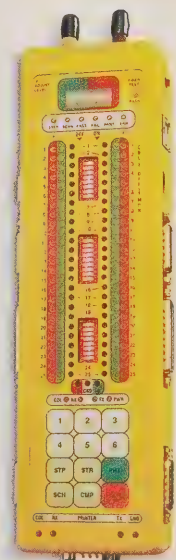
Part No.	Description	Price
396-001	Measure for Measure	\$15.25

CableMaster 1000 Cable Tester

- Takes the place of six testers
- Stores cable configurations

A compact cable tester which combines the functions of six testers in one. Tests the pin-out of DB-9, 15, and 25 cables, RJ-45 cables, and ST fiber optic cables. It has built-in intelligence for comparing common PC cables and room for three user-defined cable configurations. The fiber tester has a power bar graph for testing patch cords. It includes a full 100 LED breakout box and can monitor, via its DB-15 port, the activity of Ethernet networks. Complete with four 9V batteries, package of jumpers and easy to read manual. 3.5 x 2.5 x 11", 2.9 lbs.

Accessory Kit includes nylon carrying case, 3' dual gender DB-25 25-conductor cable, 3' dual gender DB-15 15-conductor cable, 3' straight through UTP cable with RJ-45 connectors, 3' fiber optic reference cable, 62.5/125um, with ST connectors, breakout box jumpers, and user manual.



Part No.	Description	Price
401-839	CableMaster 1000 Cable Tester	\$610.00
402-271	Accessory Kit	\$253.90

TELECOM KITS



JTK®-45

Deluxe Telecom Installer's Kit

- Install, configure, wire CPE
- Outside pockets hold equipment, documents

These quality tools fill the needs of technicians installing communication devices in the field. Access, prep wires, terminate and dress cabling. Case holds toner, line aid, transparent pockets to see consumables/small parts.

Durable Cordura case contains three outside pockets: 13 x 10-1/2 x 1-1/2", 5 x 2-1/4 x 12" and 5 x 2-1/4 x 10". Metal D-rings built into web-strap handles for optional shoulder strap.

The JTK-45 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 40 tools in all:

Cable cutter, 8"
Can wrench
Hemostat, straight, 6"
Hex key set, fold-up (9), .050-3/16"
Knife-driver, electrician's
Pliers (2): chain nose with cutter, 6"; diagonal cutter, 5"
Pliers (2), shear cutter, flush;
insulation Skinner, 6"
Probe pic

Scissors, strip-jaw, electrician's
Screwdrivers (4): Phillips #1, #2; slotted 5/16 x 4"; cabinet slotted 3/16 x 6"
Screwdriver, Phillips, pocketclip, #0
Screwdriver, slotted, pocketclip, 1/8"
Screwstarter, double-ended,
Phillips/slotted
Socket set, 1/4" drive, 14 pc.
Wire stripper, stranded 16-26 AWG
Wrench, adjustable, 6"
Zipper Case



Shown with Optional Equipment. Telecom Test Equipment, Tools and Accessories Begin on Page 195.

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style	Kit Price	Case w/pallets only	
JTK-45	Deluxe Telecom Installer's Kit	Single Black Cordura	-	15 x 10-1/2 x 2"	9	Fixed	\$265.00	216-335	\$85.00
216-432	Optional Black Shoulder Strap	-	-	-	-	-	\$10.00	-	-

Lifetime Guarantee

on all Jensen brand hand tools



Termination kits begin on p. 230

JTK®-51

Master Telecom Installer's Kit

- Installer's certification program selected tools
- Install racks, blocks, panels, mounts and cable

Optional Enhancement Kit includes a cable cutter, Paladin three blade coaxial cable stripper, Jensen 110 punch down tool, tone generator, tone tracer and crimper frame with RJ-11, RJ-45, BNC 58, 59, 62, die sets and pallet. Pallet is also available without tools.



23-473 Enhancement Kit

The JTK-51 Tools in boldface italic are backed by Jensen's Lifetime Guarantee

Over 50 tools in all:

Drill, push, with bits
File set, 3 pc.
Fish tape, 50' steel
Flashlight
Goggles
Hacksaw, heavy-duty
Hammer, straight claw
Handle, file
Icepick scribe
Knife driver
Nutdrivers (5): 1/4, 5/16, 3/8, 7/16, 1/2"
Pickup tool, 13-1/2"
Pliers (3): chain nose with cutter, 6"; diag. cutter, 5"; groove joint, 10"
Pliers, lineman's, 9-1/4"
Pliers, slip joint, 6"

Pliers, locking, 10"
Punch, center, 3/32"
Punches (2): pin, 1/16"; pin, 1/8"
Reamer, handled, 7-1/2"
Saw, 3 pc. with handle
Screwdrivers, Phillips (4): pocket; #2 stubby; #1 x 3"; #2 x 4"
Screwdrivers, slotted (6): pocket; 1/4" stubby; 3/16 x 6"; 1/4 x 4"; 5/16 x 6"; 3/8 x 8"
Screwstarter, double-ended
Tape measure, 25' x 1"
Tester, receptacle
Wire crimper/stripper
Wrenches, adjustable (2): 4", 8"
Wrench set, combination (8): 1/4 - 11/16"
Tool case with pallet



on all Jensen Polyethylene cases (see pg. 3)

Part No.	Description	Case Style (Ref. Pg. 4-5)	Style No.	Dimensions (L x W x D)	Weight (Lbs.)	Pallet Style (Ref. Pg. 5)	Kit Price	Case w/pallets only	
JTK-51	Master Telecom Installer's Kit	X-tra Rugged Rota-Tough™	7	17-3/4 x 14-1/2 x 10"	34	Side	\$600.00	377-051	\$210.00
23-473	Enhancement Kit with Tools	-	-	-	5	-	\$360.00	-	-
23-472	Enhancement Pallet only	-	-	-	2	-	\$23.00	-	-



TS®22

Amplified Speaker Test Set

- Amplified speaker for hands-free monitoring
- DropSafe reliability — Passes 20 foot drop test
- RainSafe protection in severe weather conditions
- Stores nine 18 digit numbers in repertory dialer (speed dialing)
- Last number redial
- Audible ringer for callbacks

This full-featured, basic test set for POTS testing works in many systems, conditions, and environments, thanks to its DropSafe reliability and RainSafe protection. Three audio levels on the TS22's built-in speaker aid communication with either computerized voice response systems (like the DATU/SASS Conditioning System), or Central Office mainframe administrators. Multiple memories enable storage of nine 18-digit numbers for speed-dialing test boards, the Central Office and other frequently dialed numbers. The back of the handgrip is contoured and has a non-slip pad, freeing both hands while the handset rests on the shoulder. The keypad is recessed in the bezel, providing physical protection to the keypad, while reducing the possibility of accidental button operation. The TS22 measures 10.3 x 3.4 x 2.7", weighs 21 oz. and ships with either standard or angled bed-of-nails cordset.

Part No.	Description	Price
122-526	TS22 STD	\$269.00
122-529	TS22 ABN	\$269.00

TS®22A

2-Way Speakerphone Test Set Includes All the Great Features of the TS22 Test Set plus:

- Two-way speakerphone for true hands-free conversations
- High impedance for DataSafe operation in Monitor mode

A standard among field professionals, the TS®22A is equipped with all the features of the TS®22 plus high impedance for DataSafe operation in Monitor mode and a built-in two-way speakerphone for true hands-free communication in the field. Can be used with computerized voice response systems. High current and over voltage protection provide a safety margin for the user. Continuous polarity LED indication. All this adds up to improved functionality, less on-the-job stress and greater convenience. The TS22A measures 10.3 x 3.4 x 2.7", weighs 22 oz. and ships with either standard or angled bed-of-nails cordset.

Part No.	Description	Price
122-530	TS22A STD	\$312.00
122-534	TS22A ABN	\$308.00

TS®19

Economical for the Inside Plant Technician

- High impedance DataSafe operation in Monitor mode
- Tone / Pulse operation
- Last number redial
- Polarity indication in Talk mode

Specifically designed for in-house telecom technicians, the TS®19 combines all the basic test set features at an incredible price—plus it's DataSafe, to prevent accidental disruption of data service in Monitor mode. This back-to-basics dual function test set has both tone and pulse operation, last number redial, solid state circuitry and a high impedance monitor. It is ergonomically shaped to be comfortable. The back of the handgrip has a nonslip surface, freeing both hands while the test set rests on the shoulder. Other features include the Tone (DTMF), Pulse operation, Talk/Monitor capabilities and last number redial. Modular design enables the use of most optional cordsets. The unit comes equipped with an angled bed-of-nails cord, measures 8.75 x 2.4 x 2.3" and weighs 11 oz.

Part No.	Description	Price
122-414	TS19	\$111.24

TS®30

Extreme Reliability and Durability

- High impedance DataSafe operation in Monitor mode
- DropSafe reliability – Passes 20 foot drop test
- RainSafe protection in severe weather conditions
- Mute switch
- Last number redial
- Audible ringer for callbacks

Featuring enhanced resistance to severe weather conditions, the TS®30 is an industry standard, providing superior quality at an affordable price. In addition to its DropSafe reliability and RainSafe protection, this test set's DataSafe operation allows technicians to clip onto a line in Monitor mode without disrupting existing data traffic. High current and over voltage protection also provide a safety margin for the user. The unit has an audible electronic ringer for call-backs and a hearing aid compatible receiver. Line powered, the unit requires no batteries. In addition to its lightweight ergonomic design, the back of the handgrip is contoured, making it easy for the user to grip the handset between chin and shoulder. The keypad is recessed, providing physical protection of the keypad, and reducing the chance of pressing keys accidentally. LED's indicate the polarity of current on the transmission line. The TS30 measures 10.0 x 3.3 x 2.8", weighs 15 oz. and is available with either standard or angled bed-of-nails cordsets.

Part No.	Description	Price
409-948	TS30 Test Set w/Angled Bed-of-Nails Clips	\$221.62





TS42 and TS44 Deluxe Test Sets

- Waterproof
- All new super rugged design
- Next generation functionality

TS44

The TS42 Test Set combines an all new waterproof case, DropSafe™ durability and a three year warranty for unmatched reliability. The ergonomic waterproof design exceeds MIL-STD-810E. The ruggedized case has been DropSafe tested to 20 feet on concrete. It has a high-fidelity, two-way hands-free amplified speakerphone. LEDs display high current and low voltage conditions. Always on monitor mode; just clip and go. Power sharing circuitry gives the longest battery life. Overvolt and current protection. LNR, PBX pause, 10 number speed dial, volume control, mute, polarity are standard. Measures 10 x 4.3 x 3.8" and weighs 1.5 lb.

Part No.	Model	Description	Price
420-353	TS42	Deluxe Test Set	\$325.00

DataSafe PRO protection - 2x the Standard High Impedance Monitor, Data Lockout, Lockout Override, DSL/POTS Filtering Technologies



The latest in the Harris line of advanced Data Protection Test Sets, the new TS44 DLX test set features a superior High Impedance Monitor, Data Lockout and Lockout Override, making you completely safe in Talk, Monitor or Override Mode. DSL/POTS filtering technology will allow the technician to safely draw dial tone on a live DSL/POTS shared line to test the POTS service while protecting the DSL from downing or disruption. No competing test set can insure this level of protection. Advanced testing functions for low/high voltage and low (mA) current detection are displayed with easy-to-read LEDs, providing technicians more information to work intelligently out in the field. Always-on Monitor Mode simplifies operation and speeds testing. The ergonomic case has DropSafe reliability and enhanced Waterproof protection - tested to withstand 40 mph rainfall intensities and exceeds the American Military Specification MIL-STD-810E. It even floats! This easy-to-use unit comes with all the features that make a technician more productive in the field, including a high fidelity, 2-way speakerphone for true hands-free conversations. Measures 10 x 4.3 x 3.8" and weighs 1.5 lb.

Part No.	Model	Description	Price
420-354	TS44	Deluxe Test Set	\$351.52



TS25D Test Set with LCD

Feature-rich With Caller ID

- Caller ID & call waiting caller ID
- Easy-to-read oversized liquid crystal display
- Amplified speaker for hands-free monitoring

This new feature-rich test set is a necessity for a variety of installs. The TS25D features data lockout and lockout override, making you completely safe in talk or monitor mode. The DSL/POTS filtering technology allows you to safely draw dial tone without downing DSL. A built-in tone generator simplifies wire identification with a probe. An amplified speaker makes monitoring the line hands-free, so you can keep working. The Talk Battery function provides voltage to carry voice conversation on non-powered pairs. All in a compact unit with an oversized robust liquid crystal display (LCD) that makes the intuitive, common-sense menus easy to read and use. This test set is so user friendly you will think you are using your cell phone. The unit operates on a 9V battery (included) and allows programmed timeouts to further prolong the life of the battery. The unit measures 7.8 x 2.7 x 1.6", weighs 10oz and ships with an angled bed-of-nails cordset.

Part No.	Description	Price
420-777	TS25D Test Set	\$266.69



Features & Prices for Harris Test Sets

Each Harris Test Set comes with a factory installed cord set. Standard penetrator (STD) or angled bed-of-nails (ABN) clips are installed on the TS22 series.

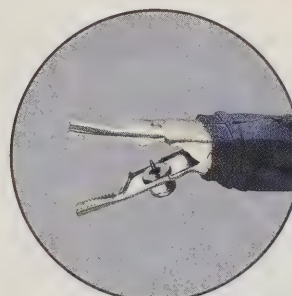
Part No.	Mfr. No.	Cord set	Last # re-dial	Polarity test	Rain Safe™	DropSafe™	Mute	Audible ringer	Datasafe monitor	Amplified speaker	9 number memory	PBX pause	Hands-free speaker phone	Data lockout	ADSL Safe	Price
122-414	TS19	ABN	✓	✓					✓							\$111.24
409-948	TS30	ABN	✓	✓	✓	✓	✓	✓	✓							\$221.62
420-777	TS25D	ABN	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	\$266.69
122-526	TS22	STD	✓	✓	✓	✓	✓	✓		✓	✓	✓				\$269.00
122-529	TS22	ABN	✓	✓	✓	✓	✓	✓		✓	✓	✓				\$269.00
122-530	TS22A	STD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			\$312.00
122-534	TS22A	ABN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			\$308.00
420-353	TS42	ABN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\$325.00
420-354	TS44	ABN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\$351.52

Optional Cord for TS®30

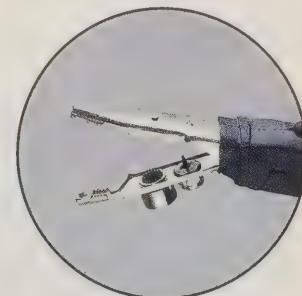
Part No.	Description	Price
425-374	Replacement Cord w/ABN	\$34.90

Optional Cord Sets for TS®42/TS®44

Part No.	Description	Price
425-375	Replacement Cord Set w/ABN	\$41.00
425-376	Replacement Cord Set w/346A Plug	\$52.90
425-377	Replacement Cord Set w/Piercing Pin	\$40.60



Standard (STD)



Angled Bed-of-Nails (ABN)

Optional Cords for TS®22 Test Set Series

May be purchased and user-installed. It replaces STD or ABN cord sets of TS22s, allowing a variety of interchangeable cord sets. Ground start cord sets for the TS22s must be purchased separately and installed by the user.

Part No.	Description	Price
130-508	Optional Central Office Cord Set (not shown)	\$43.20
966-298	Heavy penetrator for CO cord	\$70.50
966-297	ABN for CO cord	\$79.50
966-296	Modular plug for CO cord	\$55.60
966-238	310 plug for CO cord	\$73.75
130-502	Ground Start Cord Set for TS22 (not shown)	\$57.75



Cord Sets for TS®19 and TS®17

The TS19 comes with ABN cord set, and a modular jack which allows it to accept several interchangeable cord sets.

Part No.	Description	Price
130-499	Banana Plugs	\$42.00
130-501	Angled Bed-of-Nails Clips*	\$42.00
966-407	Modular plug for JTS-19	\$6.65
130-500	Angled bed-of-Nails Clips w/Ground Start Clips	\$51.45
130-498	Standard Penetrator Clips	\$31.50



*Included w/TS19



HARRIS

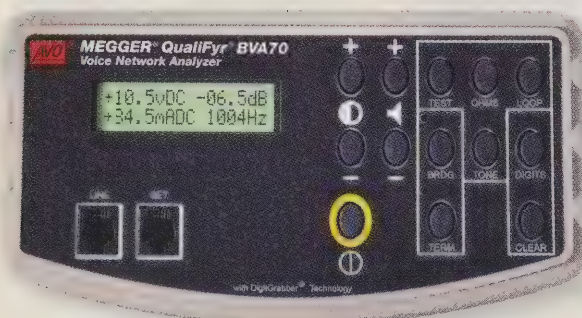
ISDN Test Set TS®250 ISDN Basic Rate Test Set

- NT1-TE Mode simulates NT1/TE for U interface testing
- TE Mode operates as subscribers TE for S/T interface testing
- LT/Dry Loop Mode simulates LT for U interface testing with either a second unit or an existing NT1
- Single B Channel or dual B Channel BERT
- Automated call-yourself BERT
- x.25 testing

The TS250 basic rate ISDN test set is perfect for pre-qualification, installation and maintenance of ISDN lines. With intuitive, common sense menus and a comprehensive set of features, our TS250 test set virtually eliminates the need to learn complex ISDN protocols. We designed it to empower conventional line technicians to handle any ISDN aspect, from pre-qualifying a line as ISDN-capable through post-installation troubleshooting.

Part No.	Description	Price
237-250	TS250 ISDN Basic Rate Test Set	\$2,015.15

Megger.



QualiFyr® BVA70 Voice Network Analyzer

Bridges the Gap Between General-purpose Multimeters and Expensive Transmission Test Equipment

- Simultaneously measures network voltage, loop current, signal level & frequency
- Measures dry resistance of loops
- Effective resistance of line on battery
- Loss & Slope readings
- DTMF capture

Specifically designed as a multipurpose test set for installation and maintenance in a telephone environment, the eight test functions are the tests needed on an everyday basis.

Part No.	Description	Model	Price
420-351	Voice Network Analyzer	BVA70	\$491.30

Megger.

T1 Testers and Verifiers

- Handheld, test anywhere from CO to CPE
- Intuitive interface is easy to use
- NiMH batteries provide up to 7 hours of testing

The Megger InterroGatr 20T1 is a compact, feature packed T1 test sets that can be used for in-service or out-of-service testing. Complete, end-to-end T1 span testing is possible with the industry standard Loop Codes most often used. The unit can be used as a DSX point or bridged to the facility at any point in the span.

The 20T1, in addition to its lightweight, battery powered design, offers the following. Transmission on standard, HDSL and Smart Repeater loops. Operating modes which include Originate, Fractional T1, Half Duplex Drop and Insert, Test Loopback, Local Loopback and Tone Insert. It performs BERT on one of 17 standard stress patterns and two user-defined 32 bit patterns. Store four programs. Measure DS1 level and frequency in volts and dB. Detect timing problems such as clock slips. Indicates AMI or B8ZA line coding. Displays DS0 frequency and level. Displays DS0 data and signaling. Logic, BPV and Frame Single and Error Rate Inject. Detects DTMF digits. G821 performance analysis. It has a printer port built-in.

Unit measures 1.75 x 5 x 9" and weigh 26 ounces. Operates on NiMH batteries and comes with charger adapter.

Part No.	Description	Price
293-091	20T1 Megger InterroGatr	\$2,905.00



For replacement batteries, see page 437



TS® 1200 ADSL/POTS Test Set

- All in one tester
- Easy to use
- Speakerphone for hands free listening

Handle trouble tickets on either POTS or ADSL lines with one test set. The TS1200 ADSL/POTS tester from Harris offers the very best in DataSafe POTS testing, combined with the ability to test and troubleshoot ADSL lines. Test ADSL while talking on the voice frequencies of the line. It allows off-hook testing of POTS lines without disrupting data services. As a result trouble tickets are cleared rather than created.

Easy menus and auto testing make it perfect for even inexperienced techs. It includes a "Home" button that allows access to all major testing modes and configuration functions from one screen. Plus, you can validate service activation, isolate failures between the customer premises and service provider, and measure throughput, line capacity, and other parameters all in one test set. The backlit LCD displays 8 lines of text and can plot a bits-per-bin graph of test results. You can save five results for downloading and printing from a PC.

You can do an auto-test, which takes a snapshot of the ADSL line, or you can do a manual test, allowing you to monitor line conditions for up to 90 minutes. On-screen icons show volume level, battery and charging levels, polarity, and speaker or mute button activity. An alarm display shows loss of signal, frame, power, or margin at the near or far end of the line. Some tests are attainable bit rate, channel bit rate, max line capacity, attenuation, output power and noise margin.

It has high voltage protection, DropSafe and RainSafe construction give it the durability you are used to with a Harris set.

On the POTS side it has PBX pause, DataSafe circuitry, high impedance monitor, ten number speed dial, speakerphone for hands free work and runs on alkaline or rechargeable AA batteries (charger and batteries included). Works with any Alcatel compatible DMT DSLAMs. Comes with Windows software for firmware upgrading, angled bed of nails test cord with RJ11 plug. Measures 10 x 3.75 x 4.25" weighs 2.5lb. One year warranty.

Part No.	Description	Price
414-555	TS1200 ADSL/POTS test set	\$1,868.68



TS100 Cable Fault Finder

Cable management from just one end of the cable

- Built-in tone generator
- High voltage detection
- Large LED screen
- Up to 2,500 feet

The TS100 is the tool for measuring opens and shorts from just one end of the cable using TDR technology. The tester works on any two or more conductor cable up to 2,500 feet and uses five types of clips. A patented tone generator will allow for tracing cable and locates a specific pair even near current-bearing cable. When clipping on to an unidentified pair with voltage up to 250VAC, the tester will immediately sound an alarm. The unit will also display "LL" if the cable is too long to be correctly measured.

Part No.	Model	Description	Price
414-356	26500-000	TS100 Cable Fault Finder w/Alligator Clips	\$318.18



For an expanded selection of telecom equipment visit contacteast.com or jensentools.com



Pro3000 Tone & Probe

- Easy-to-use with just one control (high or low sensitivity)
- Highly accurate even within inches of the tone source
- Can identify split pairs when one wire from a pair has been terminated

The Pro3000 Tone & Probe has a more ergonomic case design, SmartTone™ thechnology, angled-bed-of-nails and an 18-month warranty.

Part No.	Model	Description	Price
425-036	Pro3000	Tone & Probe	\$74.14



JTS-55



JTS-45



JTS-22



JTS-30



JTS-19



Quality Test Sets Backed by Jensen

Each Jensen Test Set offers un-paralleled value and durability without scrimping on the features and unique ease-of-use you've come to expect. Use the included headset (JTS-45 and 55) to free your hands for work. The units come with bed-of-nails cord sets. The fully electronic circuitry inside ensures high fidelity and clear speech; important when working in high-noise areas. These test sets are half the size, half the weight, tough as nails and establish a new standard in field test sets. Choose the Jensen Test Set with the features you want. We back them with a full one year warranty.

Part No.	Description	Price
JTS-55	Test Set	\$254.95
JTS-45	Test Set	\$189.00
JTS-22	Test Set	\$250.00
JTS-30	Test Set	\$194.95
JTS-19	Test Set	\$120.00

Quality Test Sets Backed by the Jensen Name

Part No.	Cord Set	Last # Re-dial	DTMF Decode	DSL Safe	Polarity	Weather Resistant	Mute	Audible Ringer	High Z Monitor	Amplified Speaker	Speed Dial Numbers/Digits	PBX Pause	Hands-Free Operation	Volt/Amp Readout	Caller ID/Call Waiting	Price
JTS-55	ABN	✓	✓	✓	✓	✓	✓	✓	✓	✓	5/23		✓	✓	✓	\$254.95
JTS-45	ABN	✓			✓	✓	✓	✓	✓	monitor	5/23		✓	✓	✓	\$189.00
JTS-22	ABN	✓			✓	✓	✓	✓	✓	✓	9/18	✓				\$250.00
JTS-30	ABN	✓			✓	✓	✓	✓	✓	monitor						\$194.95
JTS-19	ABN	✓			✓				✓							\$120.00



Megger.

General Purpose TDR

- Dual input and output ports
- 15 memories

An advanced TDR for identifying cable faults. Use it on telephony cables and graphically view any faults or line activity such as opens, shorts, taps, branches, load coils, transformers, capacitor networks, splices, water saturations and crosstalk in a range up to 48,000' (16km). It is completely adjustable, so even minor faults far out on the cable can be identified. With dual ports and 15 trace memories, you can perform comparative tests. RS232 port and included software lets you print or download your trace memories. Includes case, test leads, manual and six AA batteries. 9.8 x 7.9 x 4.3", 3.3 lbs.

Part No.	Description	Price
293-535	CFL535E TDR	\$2,795.00



DARKSTAR TECHNOLOGIES

T Spanner T1 Mapper

Verifies T1 carrier, D4 and E5F, AMI and B8ZS coding, data detection and signal level. Detects red, yellow and blue alarms. Line coding and framing error, D4 framing bit errors and E5F CRC errors and receive pulse density violation. Sends yellow alarm and responds to CSU loop up and down code. RJ48C connector.

Part No.	Model	Description	Price
419-664	D630	T1 Mapper	\$611.00



For replacement batteries, see page 437



180-231



565-558



Wire & Cable Locators

Find metallic wire, cable and conduit in walls, ceilings and underground. Transmitter injects high frequency signal and probe detects tone.

565-558 attaches to wire via alligators or direct AC plug (safe for live 115VAC lines.) Detects signal up to three feet deep out to 1000'.

180-231 uses higher power and attaches directly, inductively with clamp or through antenna in case. Works up to 7' depths up to 4000'.

Part No.	Description	Price
565-558	508S Mini-Tracker System	\$293.25
180-231	501 Underground Cable Locator System	\$700.75



Standard Tone Generators

- Applications in all wiring and cabling industries
- Fast and accurate wire identification

Tone generators provide four basic functions of tone injection, continuity testing, applying a talk battery, and line polarity indication. Talk battery allows test sets to go off-hook and communicate over a dry pair. Tone generators apply tone via pair one (inside tow wires) on a six position modular plug and through alligator clips.

77HP provides high power output along with a compact size. It is the standard.

77HP/6A is mounted with heavy duty telecom style angled bed-of-nails alligator clips, which provide a quick and secure connection to common 66 punch block fingers with less danger of shorting.

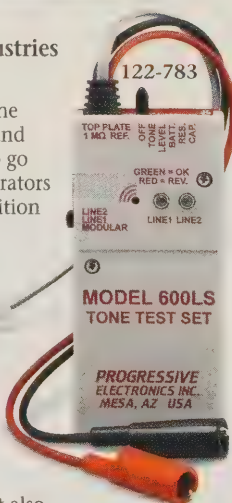
100B is the same size as the 600LS and provides a referenced, audible "beep" rate which can be used to measure resistance levels from 0 to 10 mohms.

600LS provides polarity testing on lines 1 and 2. It also has audible line condition testing indicating dead, working and off-hook pairs. It combines two 9V batteries for powering high impedance test sets in talk mode. It has audible capacitance and resistance level measurements.

77GX has standard and low power settings. Low power unbalances the signal so it can propagate down Cat 5+ cables and through short circuits. It has two-line polarity, independent continuity testing and three distinct selectable tones.

Part No.	Description	Price
565-003	776X Tone Generator w/Alligator Clips	\$39.80
565-004	77GX2 Tone Generator w/ABN Clips	\$40.00
122-900	77HP Tone Generator w/High dB Output	\$33.65
565-076	77HP/6A Tone Generator w/Angled Bed-of-Nails Clips	\$38.55
122-292	100B Tone Generator	\$62.50
122-783	600LS Tone Generator High Output	\$84.15
473-005	9V Battery	\$2.85

*One 9V Battery required for each, except 122-783 which require two



AdapToners

- Perfect for mixed plants
- Replaces two devices

The AdapToner provides the functionality of a standard tone generator with the utility of modular breakout adapter. As a tone generator it provides the standard tone injection, which can be picked up by any probe, making wire identification easy as ever. The same high power is thrown as in the 77 series. Continuity can also be tested by any of the AdapToners.

As a modular breakout adapter the AdapToner provides in-line and terminated access to all conductors for the connection of test sets. The jack is protected from dirt and damage by a sliding door in the bottom of the unit. The tongs are recessed and have curved edges and holes to provide a secure grip to alligator clips. Common wiring codes are printed on the back for easy reference. Additionally, you can attach the alligator clips to any pair via the tongs to inject tone.

The AT8L LAN Toner adds polarity checking (POTS lines) and circuitry to blink the activity LED on an Ethernet (10BaseT and 100BaseT) hub, switch or network interface card. Along with the tone injection and modular breakout utility, the AT8L makes a complete POTS and LAN front line diagnostic tool.

Part No.	Description	Price
418-487	AT8L LanToner	\$75.80
410-062	AT8 AdapToner 8-Position	\$69.35
473-005	9V Battery	\$2.85

*One 9V Battery required for each



Resistance Fault Meter

- Effective range up to 20,000 feet
- Compact size and lightweight portability
- A clear LCD display provides distance in feet

The 210 Resistance Fault Meter provides telecommunication technicians with an easy-to-use method of measuring distances to faults or straps on outside plant telephone wiring. Installation, maintenance, loop, and cable repair technicians can successfully locate high resistance shorts, grounds, and crosses even in the presence of foreign voltages. The simple operating instructions and easy to follow reference label lets new technicians diagnose trouble on the first call. Come complete with extra long, 48 inch test leads with bent nose piercing clips for use on terminated or non-terminated pairs, along with a durable protective case. 10 x 7.5 x 3.5". Operates on 8 AA batteries, included.

Part No.	Description	Price
565-016	Resistance Fault Meter	\$699.00



Inductive Amplifier Probes

- Work with any tone generator
- Simplify wire and cable identification

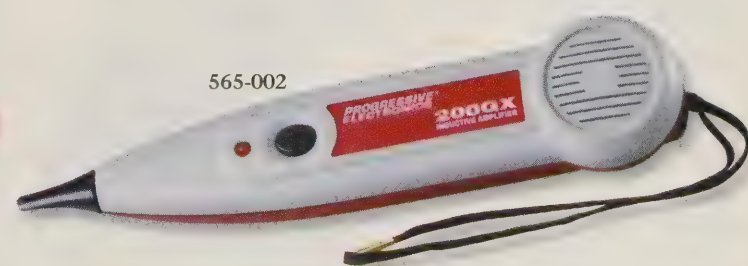
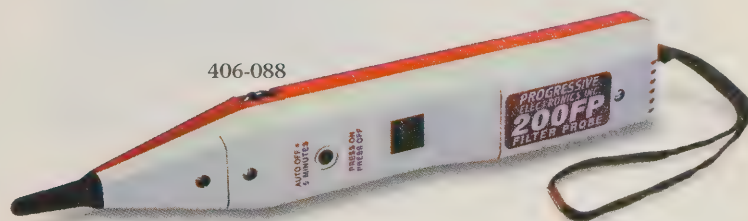
Used in conjunction with any tone generator these units permit wire and cable identification. The tips of the probes act as antennae, picking up the audio frequency field induced on wire. It is then filtered and amplified and played out the speaker. Without need to connect electrically to the wire, tracing and identifying is quick and easy.

The **200EP** has an adjustable volume control. This aids you in precisely identifying the cable carrying the tone in the most congested cable bundles or crowded termination blocks, helping to overcome tone bleeding onto adjacent pairs. A visual indicator lights with the speaker. It has a recessed momentary-make switch for battery saving operation. It also incorporates recessed tabs for the connection of test sets or headsets, which turn off the speaker. This is helpful for working in noisy environments or when you don't want to disturb customers. It comes with a round plastic tip installed and a plastic duckbill tip and metal tip.

The **200FP** has a slim, comfortable design. Recessed momentary-make switch, adjustable volume control. A LED lights when signal is received. Recessed tabs for buttset or headset connection like the 200EP above. Its greatest feature is the patented circuitry which filters out the annoying and obtrusive 60 Hertz hum which can be induced on to pairs coming into proximity to power lines. Comes with two tips, round and duckbill.

The **200GX** has a comfortable design. It includes a LED indicator of signal strength. Recessed tabs for buttset and headset connections.

Part No.	Model	Description	Price
406-088	200FP	Filter probe	\$120.35
122-433	200EP	Probe	\$61.30
565-002	200GX	200GX Probe	\$70.00



Model 620K Security/Alarm Kit

The 620 Loop Verifier is designed specifically for security/alarm techs. It operates as a continuity tester on N.O. and N.C. circuits, giving an audible tone when it detects an alarm condition. It latches a change for identifying "swingers" and operation of remote switches. It also injects tone into via clips or RJ-11 plug and has magnetic back plate for mounting to cabinet doors. Kit includes 620, 200EP probe and polyester belt holster. Batteries sold separately.

Part No.	Description	Price
412-671	620K Security/Alarm Kit	\$131.35
565-620	620 Loop Verifier only	\$57.10
473-005	9V Battery	\$2.85

One battery required for 620, two required for 620K





AT8LK Tone and Probe Kit

The **AT8LK** is the newest kit. It is perfect for the technician who works with both phone systems and computer networks. The all-new AT8LK LAN Toner is similar to the AT8 but offers new circuitry and microprocessor controls. A simple push button controls all the outputs and modes of the LAN Toner. And you can even blink the hub or switch port activity LED or the LAN LED on the network interface card in a PC. It comes with the 200GX tracer and the belt case.

Part No.	Description	Price
418-848	AT8LK Tone and Probe Kit	\$157.05

GX Professional Grade Tone Generator and Probe

- Unbalanced signal works on Cat 5+ cables
- Save batteries with auto off
- Durable, drop tested to 20'

The **711K** kit combines the newly designed 77GX and 200GX models. The tone generator, 77GX, offers two power settings. The low setting actually unbalances the signal, allowing it to propagate much farther on high speed twisted pair cables than standard tone generators. It has three easily changed warble tones, selectable from the front panel. The 200GX is a slim and comfortable tracer with adjustable volume control and recessed tabs for connecting buttsets and headsets.

Part No.	Description	Price
565-001	711K Tone and Probe Kit	\$112.42



P Phone Adapters

Convert your standard analog test set into P phone compatible test set. Works on Centrex, Meridian business set, Electronic business set, M phone, E phone or P phone lines with an 8KHz digital circuit. Converts both signaling and speech.

Part No.	Description	Price
18-005	P Phone Adapter w/o Cordset	\$189.00
18-006	P Phone Adapter w/Cordset	\$204.95

701K Classic Tone and Probe Kit

- The standard in wire & cable identification
- Applications in all industries

With its widespread applications and terrific performance, the **701K Tone and Probe Kit** has been a longtime favorite with professionals in every premise wiring industry. The 701K can be used to identify single conductors or cables within a bundle, at a cross-connect point or at remote ends. Containing the 77HP high power toner and the 200EP inductive amplifier with volume control, the 701K is housed in a sturdy woven polyester carry case with a strap for hanging on your belt.

Part No.	Description	Price
122-875	701K Tone and Probe Kit	\$110.00

801K Premium Tone and Probe Kit

- The ultimate in wire & cable identification
- For the demanding professional

The **801K** is the premium wiring identification kit. Top of the line components make it the choice of professionals. Containing the 77HP/6A high power tone generator with bed-of-nails clips, increased talk battery power and higher voltage protection, and the 200FP filter probe which filters out all distracting AC hum. The kit is complete with woven polyester belt case.

Part No.	Description	Price
408-372	801K Tone and Probe Kit	\$163.80

AT8K Tone Generator/Tracer Kit

- Perfect for network technicians
- Injects tone on any pair

The **AT8K** kit offers lots of features for a great price. The AT8 AdapToner allows you to inject tone on any pair of a four pair line via its innovative modular breakout design, you can even use it as a 'banjo' adapter for connecting buttsets. Trace tone using the workhorse 200EP with adjustable volume control. Housed in rugged polyester carry case which can be worn on your belt.

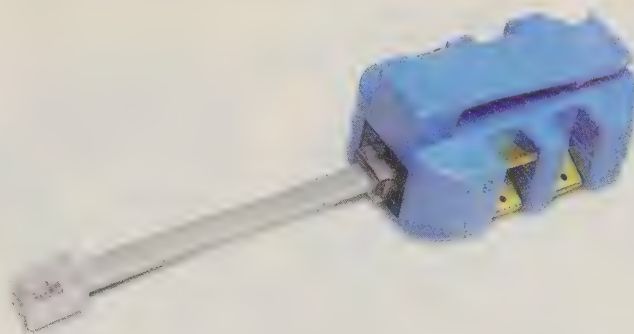
Part No.	Description	Price
412-670	AT8K Tone Generator/Tracer Kit	\$138.00



Tone Generator and Tracer Kit

Tone generator provides audible tone on pair one which is inductively (non-contact) picked up and amplified using the Tracer. Continuity test and talk battery can also be provided. 9V battery provides 6.5 Volts of output. Has modular plug and separate alligator clips for pair connection. The Tracer has adjustable volume and a momentary activation switch. Tip is non-conductive, eliminating shorts when running terminal blocks. Both operate on 9V batteries, not included. Kit includes both units and durable Cordura holster case.

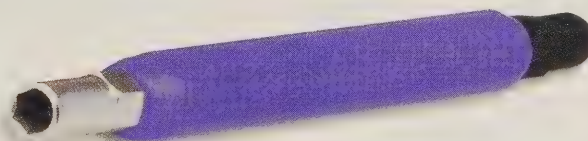
Part No.	Description	Price
23-077	Tone Generator high power	\$28.95
23-095	Tone Tracing Probe	\$39.95
JTK-101	JToner and JTracer holster kit	\$91.80
473-005	9V Battery	\$2.85



JPair 6-Wire Modular Test Adapter

■ Perfect for attaching toners & butt sets

Part No.	Description	Price
23-019	6-Wire Adapter	\$20.50



Can Wrench

Common tool used for opening telecommunications pedestals and covers. Deep nutdrivers on each end; 3/8" and 7/16" by 1-1/8" deep. Color coded for quick identification. Purchase the optional security inserts to access tamper-proof fasteners. Lifetime warranty.

Part No.	Description	Price
23-018	Can Wrench	\$10.00
237-166	Security Insert 5/32" & 5/16" Hex	\$14.55
237-106	Security Insert w/5/16" Binding Pot Cleaner	\$22.72

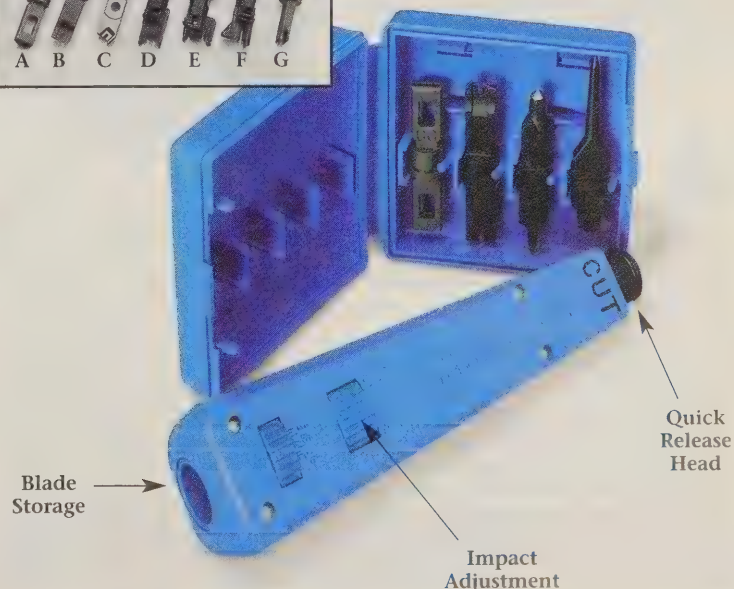
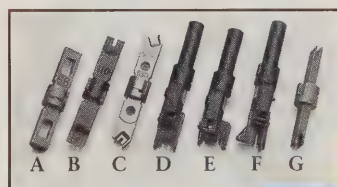
Punch Tool



Part No.	Description	Key	Price
23-814	Punch Down Tool	-	\$39.00
23-066	66 Blade	A	\$17.60
23-110	110 Blade	B	\$18.75

Also accepts these industry-standard blades from Harris: Specialty Blades

Part No.	Description	Key	Price
237-002	Extra Long 66, Loop	-	\$45.00
406-339	Dually 110/Krone	-	\$63.00
237-006	Extra Long 66 Cut	-	\$45.00
117-782	Blade for 630A Modular Jack	C	\$23.00
401-944	Blade for NT "BIX" Blades	D	\$52.12
412-665	Blade for 3M "D" System	E	\$66.66
401-943	Blade for Krone Blocks	F	\$52.77
117-783	Blade for GTE Modular Hardware	G	\$43.50
117-785	Metal Punch Blade	-	\$20.50
402-269	Wood/Drywall Punch Blade	-	\$20.50
401-945	Case (holds up to 8 blades)	-	\$14.86
1-665	Case w/66, 110, Wood & Metal Punch	-	\$80.60





Deluxe Cable Service Kit

Most Popular Tools for Terminating and Tracing Voice and Data Connections

The kit includes a punchmaster punch down tool with 110 and 66 blades, electricians scissors with stripping notches, UTP/STP stripper, 5-in-1 screwdriver, probe pic and spudger, tone generator, amplifier probe, journeyman's electricians tote, telemaster tool, link master tester and remote.

Part No.	Description	Price
423-374	Deluxe Cable Service Kit	\$389.95



Model 4 and 5 Subscriber Loop Test Sets

- Circuit test, tone generator and volt-ohmmeter in one
- Preferred by telephone service technicians

Accurately measures circuit loss, circuit noise, power influence (noise to ground) and line current. Tone generator feature allows user to select from 15 fixed plus two user-defined frequencies. Both testers provide a full range of voltage and resistance measurement. Analog display on **56-355** provides a clear view of fluctuating readings. **56-360** presents data on accurate, easy to read 1/2", 3 digit LCD display. Complete with full cord sets, protective covers, batteries and spare fuses. Three year manufacturer's warranty.

Part No.	Description	Price
56-355	Model 4 Subscriber Loop Test Set	\$684.10
56-360	Model 5 Subscriber Loop Test Set	\$743.90



Pocket Telephone Line Tester

- Accurately tests one & two line outlets
- Prevents damage to analog modems

Conveniently tests for polarity, DC line voltages, loop current levels, AC ring voltages. Precisely simulates off-hook state. All this in a portable pocket-clip package. Perfect for telephone, computer and network technicians. Provides a complete health check of the phone line without the need for cumbersome equipment. RJ-11 jack built-in, two RJ-11 pigtails included. 90 day warranty.

Part No.	Description	Price
433-010	BT-10 Telephone Line Tester	\$20.35



Voice Tagger Tone Generator

The Voice Tagger uses voice response and tone generator technologies to identify and tag twisted pair, coax, electrical and security/alarm wires. Eight of the nine test leads provide voice transmission while the ninth provides a warble tone. It has a range of 50,000 feet.



The Voice Tagger audibly identify the numbers corresponding to the attached conductors and pairs. For example, conductor #1 is identified as "One...One...One...". These voice identifications can be picked up by any inductive amplifier such as Progressive Electronics' or handset. Battery and ground are provided for talk pair circuit using handsets. Powered by included 9V battery. Measures 2.75 x 5.5 x 1.25" weighs 10.5oz.

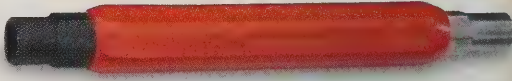
Part No.	Description	Price
423-683	Voice Tagger Tone Generator	\$217.50



Can Wrenches

The Harris Can Wrench features color-coded socket ends and built-in ribs for user comfort, safety and greater torque power. The two hex heads both have reduced outside diameters that fit all new network interface boxes. The 7/16" socket end is black oxidized to distinguish it from the 3/8" zinc-plated socket end. The Can Wrench is also available with a wire stripper built into the barrel. The stripper has two slots with one slot for the outside jacket of a 4-wire "quad" and the other slot for individual conductors (22 or 24 gauge). **237-166** security key has 5/32" and 5/16" tamper-proof hex. **237-106** security key has 5/16" tamper-proof hex and 10-32 binding post cleaner.

Part No.	Description	Price
190-238	Can Wrench w/22 AWG Stripper	\$29.50
190-240	Can Wrench w/24 AWG Stripper	\$29.50
118-533	Can Wrench w/o Stripper	\$17.40
190-236	Insulated Stripper w/o Cutter	\$28.30
237-166	Security Insert 5/32" & 5/16" Hex	\$14.55
237-106	Security Insert w/5/16" Binding Pot Cleaner	\$22.72





Hound 2 Inductive Tracer

Streamlined Inductive Tracer

New

- Streamlined case design
- Adjustable volume control
- LED which light intensifies as the signal gets stronger
- Contains a hi-gain, hi-impedance amplifier
- Capable of identifying the Fox's tone up to 12 inches away
- Rugged, moisture resistant, mylar cone speaker
- Convenient operation from a standard 9V battery
- One Year Warranty

The Hound 2s sleek case design allows for better access in those tight, hard-to-reach areas. The Hound 2 also has an adjustable volume control and an LED that intensifies as the tone signal gets stronger. This makes wire identification easier in noisy environments where the speaker cannot be heard.

Part No.	Model	Description	Price
402-261	3236	Hound 2 Inductive Tracer	\$63.70



TDR Cable Fault Finder

Low Cost Digital Cable Length Meter/TDR

New

- Find cable length or distance to fault from one end
- Built-in tone generator for cable tracing and identification
- Simple operation with automatic distance display
- Internal library of 39 standard cable types
- Suitable for testing all types of communication cables
- 3-year warranty

Compact, ergonomic design weighs less than 8 oz. Includes: padded Cordura holster, test lead adapter with alligator clip, 9 V battery.

Part No.	Model	Description	Price
420-738	3271	TDR Cable Fault Finder	\$342.10

New

Fox 2 and Hound 2 Kit

A quick, easy and economical way to trace wires and cables of all kinds including: electrical wire, twisted pair, LAN cable, coax cable, multi-conductor cable, telephone cable, speaker wire and alarm cable. Kit includes: Fox 2 deluxe tone generator, Hound 2 probe inductive tracer and carrying case.



Part No.	Model	Description	Price
424-252	3395-K	Fox 2 & Hound 2 Kit	\$106.00

New

Fox 2 Tone Generator

Deluxe Tone Generator with "TrueTrace"

- "TrueTrace" - Cadence of tone changes when pair is momentarily shorted, allowing definite ID of target pair
- Use cordless phone for hand-free TrueTrace
- Unique "Trip-Latch" testing technique uses TrueTrace for alarm sensor testing
- Connect using RJ-11, RJ-45, BNC (using adapter) or alligator clips
- 120V overload protection and overload warning beeper
- High output tracer tone
- Select warble or pulse tone
- Supplies "Talk Power" to allow communication between handsets or to power a telephone
- Built in telephone ringer
- "Power Latch" prevents accidental turn-on, conserving battery life

The Fox 2 is a second generation tone generator, designed to increase the user's productivity in tracing wire and cable of all kinds. Internal selectable settings provide HI/LO pitch shift, warble/continuous tone, on/off audio pilot tone, and on/off cadence shift. Magnetic back sticks to steel surfaces to allow greater freedom of hands. Works with either Hound or Hound 2 Probe. Powered by standard 9 volt battery (not included). One year warranty.



Part No.	Model	Description	Price
424-251	3382	Fox 2 Tone Generator	\$45.00



CableTracker U/G Underground Cable Locator

Detects Signals Up to 8' Deep and Out to 5000'

- Selectable low (2KHz) or high (33KHz) frequencies
- Lightweight detection wand
- Null and peak signal detection
- Low battery indication
- Optional induction clamp

The Cable Tracker U/G brings dual frequency capability to limited budgets. Working at either 2 KHz or 33KHz, the Cable Tracker works by connecting the built-in transmitter to the cable and following the audible signal. The 2KHz frequency is best for cables and pipes. It uses a direct connection and greatly reduces false coupling with adjacent lines. The 33KHz frequency is used to apply the signal by induction, or for high resistance lines. The higher frequency also jumps insulators and rubber gaskets often found in water and gas distribution systems.

The lightweight wand receiver picks up signals while held waist high, reducing operator fatigue compared with units that require the user to hold the receiver at ground level. The wand comes with a bubble level to determine depth through a 45 degree triangulation. The unit measures 24 x 17 x 4", weighs 6 lbs, and ships complete with batteries, case and instruction manual. The inductive clamp is optional. 1 year manufacturer's warranty.

Part No.	Model	Description	Price
423-653	CT-200	CableTracker U/G	\$480.00
423-654	CT-200c	Inductive Clamp	\$180.00



New

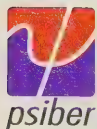


Universal DSX-1 and DSX-3 Test Kits

Designed for testing digital and analog circuits in the central office or outside plant. The DSX-1 kit supplies the necessary cords to test RJ45, RJ48, 66 block, 310 and single or dual bantam jacks. Cords are color coded and the bantams are nickel plated to Bellcore specs. Molded plugs and "Y" junctions insure long life. Soft case organizes cords and eliminates tangles. Contains: Two red and blue pair of bantam-bantam and bantam-310 cords. One each red and blue bantam to dual alligator clips, dual bantam to RJ48, 310-RJ11, dual bantam terminator, dual bantam looping tool, two 66 block adapters and two female bantam to male 310 adapters. Cords are 8' long

The DSX-3 kit is complete with a red and blue BNC cables, and four each 440A MID and 358A STD BNC adapters. Cables come with molded strain reliefs, handy carry case included.

Part No.	Description	Price
362-001	DSX-3 Kit	\$153.00
362-002	DSX-1 Deluxe Kit	\$433.50



CableTool Multifunction TDR

- TDR, Volt Meter & Tone Generator
- Measures distance to shorts/opens to 2500 feet

The CableTool Multifunction TDR is for installing and maintaining metallic cabling. It utilizes TDR technology to quickly determine the distance to a cable fault (open or short) in feet or meters.

Over 65 pre-stored standard cable NVP values and four user defined values are included. A voltage measurement capability up to 250 Vrms is provided to warn the user of potentially unsafe test conditions and to identify the type of circuit under test. Additionally, a tone generator function with selectable tones allows for cable tracing with most tone probes. The CableTool includes standard banana jack connectors which are compatible with a wide range of leads or connectors for testing any cable type. Unit includes four AA batteries and alligator clip leads.



Tel-Line Tester

Fast cable pair troubleshooting. Isolates CO from field, access 5-pin location at building entrance, CEV, SLC remote and CO. No need to disconnect pair, unit automatically splits the CO from the field at the 5-pin connector block, anywhere in the loop. Butt set tabs are marked "Tip and Ring In" for CO and "Tip and Ring Out" for the field. To temporarily restore subscriber service while troubleshooting, plug the included looping plug.

Part No.	Description	Price
418-845	CableTool Multifunction TDR	\$279.00

Part No.	Description	Price
362-003	TC-TLTS2C Tel-Line tester complete kit	\$40.30

Paladin Tools**New****Cable Fault Identifier TDR Tester****Super Fast Test Results in Only One Second!**

- Tests cable up to 3200 ft. in length
- Accuracy rate of $\pm 1.5\%$, most accurate True TDR technology
- Built-in tone generator with warble tone
- Pre-programmed NVP values for common cable types
- Easy to read large display
- Small & lightweight
- Simple push button operation
- Requires only one 9V battery - included
- True TDR technology
- Check length of cable
- Check amount of cable remaining on spool
- Check distance to short
- Check distance to open
- Detects live voltage

Includes BNC-to-alligator clips and 9V battery.



Part No.	Model	Description	Price
425-601	1549.1	TDR Tester	\$319.00

For replacement batteries, see page 437**Load Coil Detector**

- Designed to withstand the rigors of daily use
- Quickly troubleshoot dedicated lines

Designed for the telecommunications market, the model 88 will identify the presence and count the number of load coils on an active or inactive circuit. No complicated screens or test instructions to decipher. Simply connect the test leads and turn the switch. While gradually turning the control, the display will "kick" to signify each coil detected on the pair. The tester will accurately identify and count up to four load coils on the circuit under test.



Part No.	Description	Price
565-015	Load Coil Detector	\$89.50

**Sidekick 7B**

- Reduces repeat service calls
- Increases productivity
- Works on any twisted-pair

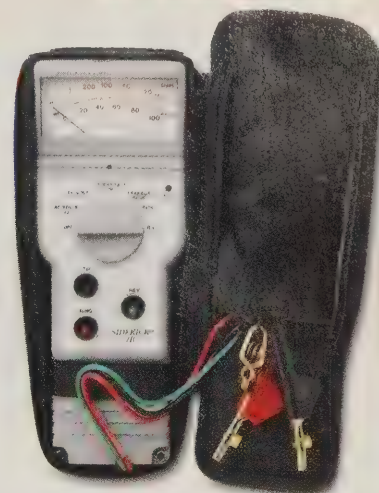
The Sidekick 7B quickly and accurately uncovers intermittent faults that other test sets cannot detect. It can be used by technicians to troubleshoot inside wiring and outside plant cabling, and from closures to connecting blocks. It provides the standard features required by technicians such as AC/DC VOM and kick meter they have come to rely upon.

Additionally the Sidekick 7B provides the technician, in a hand-held and easy to use package, the ability to determine the stressed noise susceptibility of dry or working pairs. It reads the audible noise produced on a faulted pair that is stressed by a 90dBm longitudinal excitation. The Stress Test determines the capacitive and series resistance balance characteristics of a twisted pair at any point along the line. It is capable of identifying DC resistive or capacitive imbalances undetected by other subscriber loop tests. The Stress Test is highly effective in identifying imbalances produced by series resistance opens (high joints.)

A Leakage Test detects intermittent resistance faults that do not appear under normal VOM tests. When a faulted pair is taken out of service, galvanic action forms an insulative oxide layer over the faults. When returned to service, such pairs develop noisy static in a relatively short time. The Leakage Test uses 135V to punch through such oxide layers and reveal the fault.

Sidekick 7B operates on four included AA batteries. It comes with a soft carry case, and it measures 10.75 x 4.25 x 2.5" @ 2lbs.

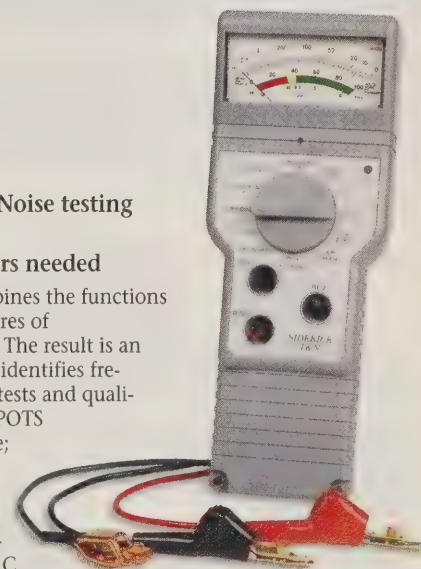
Part No.	Description	Price
465-003	Sidekick 7B Test Set	\$699.00

**Sidekick T&N**

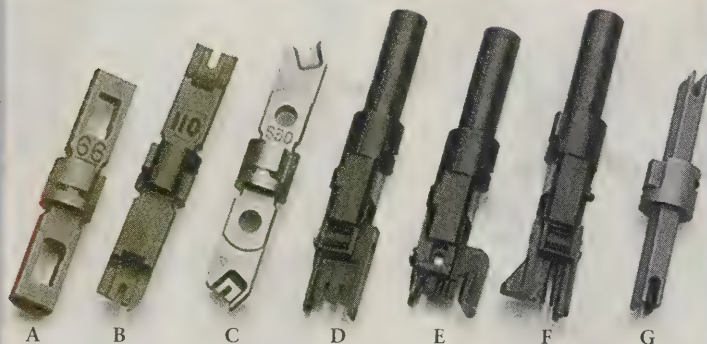
- Adds Transmission and Noise testing
- Improves productivity
- Reduces number of testers needed

The new Sidekick T&N combines the functions of the Sidekick 7B plus the features of Transmission and Noise testing. The result is an even more versatile test set that identifies frequently missed faults as well as tests and qualifies the transmission quality of POTS lines. The additional features are; Loop current testing to 100mA, Circuit loss testing from -15 to +1dBmC, Metallic noise testing from 0 to 90dBmC, Power influence testing from 50 to 100dBmC and Load coil detection.

Standard features are stressed noise detection on dry and working pairs. Resistance measurements, AC and DC voltage measurements, and capacitive kick. It provides tone for identification. Minimal drying effects in all ranges. Operates on four included AA batteries. Measures 10.75 x 4.25 x 2.5" weights 2lbs. Soft carry case included.



Part No.	Description	Price
465-006	Sidekick T&N test set	\$1,095.00



Blades for D814, D914 & D214

Part No.	Key	Description	Price
237-002	-	Extra Long 66, Loop	\$45.00
406-339	-	Dually 110/Krone	\$63.00
237-006	-	Extra Long 66 Cut	\$45.00
237-301	-	Eversharp, Dually Blade	\$31.87
237-302	-	Extra Long 66 Cut	\$22.95
237-303	-	Eversharp 110 Blade	\$22.95
117-781	A	Blade for 66 Block	\$20.31
117-784	B	Blade for 110 Block	\$23.59
117-782	C	Blade for 630A Modular Jack	\$23.00
401-944	D	Blade for NT "BIX" Blades	\$52.12
412-665	E	Blade for 3M "D" System	\$66.66
401-943	F	Blade for Krone Blocks	\$52.77
117-783	G	Blade for GTE Modular Hardware	\$43.50
117-785	-	Metal Punch Blade	\$20.50
402-269	-	Wood/Drywall Punch Blade	\$20.50
401-945	-	Case (holds up to 8 blades)	\$14.86
1-665	-	Case w/66, 110, Wood & Metal Punch	\$80.60



For an expanded selection of telecom equipment visit contacteast.com or jensentools.com



Banjo In-Line Modular Adapters

- Removable/replaceable cord
- Inline adapters

The Banjo Modular Adapter permits testing on working lines without disrupting service and helps determine whether the trouble is in the phone or in the line. This unit works like the Harris Standard Modular Adapter, but has the added feature of replaceable test leads.

Part No.	Description	Price
404-384	4-Wire Inline Adapter	\$25.05
122-304	6-Wire Inline Adapter	\$27.35
404-385	8-Wire Inline Adapter	\$30.80
122-297	4-Wire Terminating Adapter	\$16.45
237-102	8-Wire Adapter w/Snagless Plug	\$29.80



ProbePic

This handy, pocket-size insulated probe has multiple uses. The probe end can be used to check for loose or damaged connections or to spread apart wires for direct access. Use the pic end for tracing or pulling wires from a bunch or picking one wire off a flat surface. Molded of tough, resilient nylon.

Part No.	Description	Price
412-654	ProbePic	\$6.95



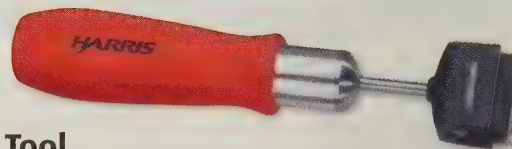
Need-L-Lock™ Crimping Pliers

Two of the Most Essential Tools on Your Belt Are Now One:

- UR/UY/UG (Scotch lock) connector crimper
- Wire stripper hole
- Built-in side cutter
- Rubber coated handles for non-slip grip

New patent-pending two-in-one design crimping pliers combine a UR/UY/UG (Scotch lock) connector crimper with needle nose pliers. This means one less tool on your belt! Aligned crimping jaws come down square, ensuring a solid connection. Jaws are grooved to provide a better grip on wires and feature a built-in cutter and wire stripper. Forged of high quality steel with coated ergonomic handles for a reliable grip, these 6 1/2" needle nose crimping pliers are a tool every technician and contractor needs!

Part No.	Model	Description	Price
420-944	Need-L-Lock	Crimping Pliers	\$17.09



D-Impactor™ 5-Pair Impact Tool

This rugged, easy-to-use tool allows technicians to simultaneously cut and terminate five copper pairs on a 110 block. It saves time and minimizes hand stress by reducing the total number of manual terminations. Combining the cut and no-cut blades into a single piece allows users to reverse the blade unit at record speeds. The patented individually molded blades eliminate the chance of a metallic short, ensuring optimal performance of your network.

Part No.	Description	Price
237-011	10059-100 D-Impactor 5 pair punch tool	\$175.00



Telecom Splices

- Quick connections
- Weatherproof seal

Red (UR) Connectors provide three openings for 19-26 AWG wire, ideal for pigtail and load coil splice applications. **Yellow (UY) Connectors** are used for 22-26 AWG. **Green (UG) Connectors** tap onto 19-26 AWG wires. Solid conductor wires only. The **Telecom Splice Kit** includes 100 of each type of connector in a rugged transparent box.



Pliers not included in kit

Part No.	Description	Price
1-279	Telecom Splice Kit	\$50.00
251-649	Red (UR) Connectors, 100 pc.	\$17.50
251-650	Yellow (UY) Connectors, 100 pc.	\$15.00
251-651	Green (UG) Connectors, 100 pc.	\$22.00
759-028	Connector Crimping Pliers	\$16.30

THE
SIEMON COMPANY

5-Pair 110 Termination Tool

- Terminates and cuts up to 5 pairs UTP at a time
- Ideal for seating 3, 4 and 5 pair connecting blocks

Part No.	Description	Price
410-995	110 Termination Tool	\$249.95
425-789	110 Replacement Blade	\$47.95



Fuse Puller

- N.S.N. 5120-00-554-3372

Molded nylon universal fuse puller for screw-in and industrial cartridge fuses up to 3/4" or 100 amp type.

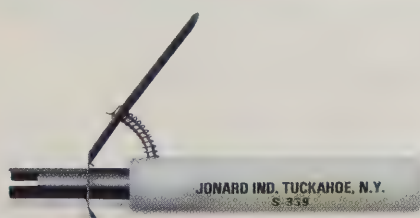
Part No.	Description	Price
60-356	Fuse Puller	\$3.00



Lamp Extractor

For removing or inserting lamps in panels and switchboards.

Part No.	Description	Price
63-092	Lamp Extractor	\$10.45



3MTM

ScotchlokTM Connectors & Kit

These connectors are used to make fast splices and taps on solid copper wires without stripping. They come with environmental sealant and are for PIC and pulp/paper cables. Use the chart to select the proper connector.

Model	Wiring	Part No.	Quantity	Price
UR2		251-041	100	\$11.75
UR		251-649	100	\$17.50
UY2		251-044	100	\$15.30
UY		251-650	100	\$15.00
UAL		251-048	100	\$27.00
UG		251-651	100	\$22.00

66 & 110 Block to Modular Adapters

- Now with CAT 5



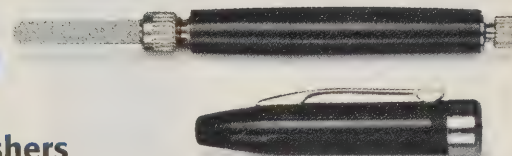
Part No.	Description	Price
118-888	2 Wire 66 Block to RJ-11 Adapter	\$13.50
118-889	4 Wire 66 Block to RJ-11 Adapter	\$12.75
118-890	6 Wire 66 Block to RJ-11 Adapter	\$14.35
118-891	8 Wire 66 Block to RJ-45 568 Paired	\$14.75
425-761	8-Wire 66 Block to RJ-45 USOC Paired	\$17.23
123-711	8-Wire 110 Block to RJ-45 Adapter	\$15.45
43-533	6-Wire 110 Block to RJ-45 Adapter	\$14.30
43-315	8-Wire 110 Block to RJ-45, CAT 5 (568A)	\$20.35
43-316	8-Wire 110 Block to RJ-45, CAT 5 (568B)	\$20.35

JONARD

Pocket Contact Burnishers

125-206 comes with six flat blades, 1-1/2" long x 11/64" wide and .007" thick. 191-554 comes with six flat blades .0035" thick and six round blades with ball end, .020" diameter. Both tools are 4-1/4" long with blade storage in hollow plastic body. Chuck holds blade in use. Replacement blades available.

Part No.	Description	Price
125-206	Pocket Contact Burnisher w/Flat Blades	\$19.55
191-554	Pocket Contact Burnisher w/Flat & Round Blades	\$22.65
125-189	Flat Blades, .007", 25/pkg.	\$17.10
125-188	Flat Blades, .0035", 25/pkg.	\$16.60
759-004	Round Blades, .020", 50/pkg.	\$28.50





HARRIS

Pro-Tool Kits



Upside down kit

Housed in a new sleek form-fitting PVC Dur-a-Grip Tool Pouch, these kits from Harris give you the essential tools needed right at your fingertips. The molded design of the pouch ensures a tight grip on the tools, and NO FALLING OUT! (see picture). The case has a strong steel belt clip which securely holds the pouch but is easy to remove.

Each kit comes complete with the essential tools for a multitude of applications. Some of the tools included are shown below.

The 914S Impact Tool with comfortable padded grip, is used for fast and reliable connections to blocks and jacks. It contains a built-in hook and spudger, and has the EverSharp 66/110 cut blade for 3 times more cuts.

The 814 Impact Tool accepts a variety of industry standard blades and has a convenient storage space for an extra blade in the handle.

D-Snips for faster, cleaner, safer, no-slip cutting and stripping, have a "tailed" handle for more leverage with less fatigue.

Cable Stripper strips outer jacket of UTP/STP and other flexible cables without damaging wires.

Mini Maglite provides a high intensity adjustable light beam and converts quickly to a freestanding candle.

The Cable Knife is a sharp, durable splicing knife with 1.75" cutlery-steel blade and an easy-to-grip non-slip handle for better control and less hand fatigue.

There are five different kits, one for every need.



	IS60 Kit	IS50 Kit	IS40 Kit	IS25 Kit	IS15 Kit
Impact Tool	D914S™	D914S™	D814®		
Electrician's D-snips w/stripper	x	x	x	x	x
Cable stripper	x	x	x		
Mini Maglite	x			x	
Eversharp 66/110 cut blade	On D914S	On D914S	x		
Cable Knife				x	x
Probe pick & spudger	On D914S	On D914S	x		
PVC Dur-a-Grip Tool Pouch	x	x	x	x	x

Part No.	Model	Description	Price
420-749	IS60	IS60 Technician's kit	\$196.55
420-340	IS50	IS50 Technician's kit	\$147.57
420-339	IS40	IS40 Technician's kit	\$140.01
420-752	IS25	IS25 Technician's kit	\$90.00
420-753	IS15	IS15 Technician's kit	\$73.65
420-908	—	Dura Grip Pouch only	\$40.31

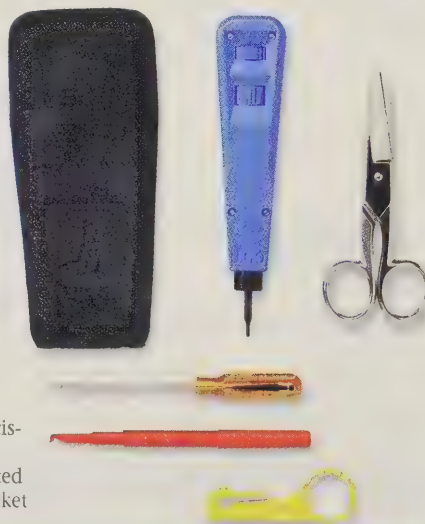
JENSEN®

Cabling Technician's Belt Kit

- Worn with or without belt
- Durable poly pouch

Conveniently carry all your most commonly used tools in a handsome and rugged pouch. Kit includes impact punch down tool with 66 and 110 blades. Also included is a pair of electrician's scissors with serrated blades and strip notches, probe pick, spudger, twisted pair cable jacket stripper and a pocket clip flat bladed screwdriver.

Part No.	Description	Price
425-425	Cabling Technician's Belt Kit	\$135.00
216-425	Case Only	\$12.00

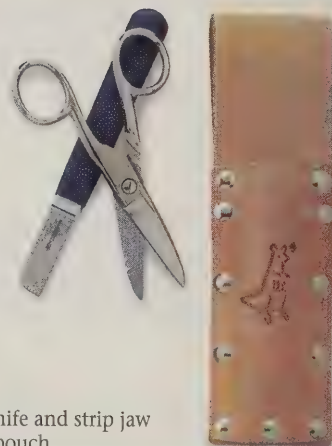


JENSEN®

Cable Splicer's Kit

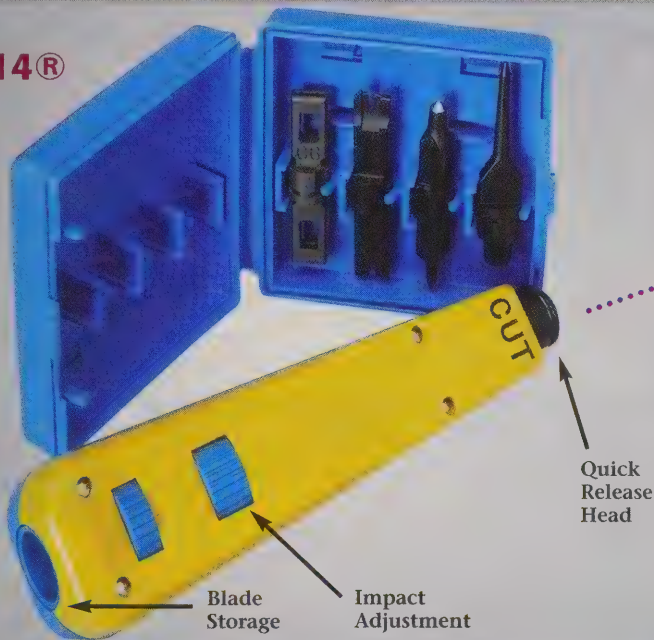
Kit includes straight-blade knife and strip jaw scissors in a two pocket leather pouch.

Part No.	Description	Price
1-216	Cable Splicer's Kit	\$26.50
119-352	Knife only	\$14.65
320-175	Serrated Blade	\$12.10
216-373	Case only	\$6.50





D814®



D814® Impact Tool

■ Lifetime warranty

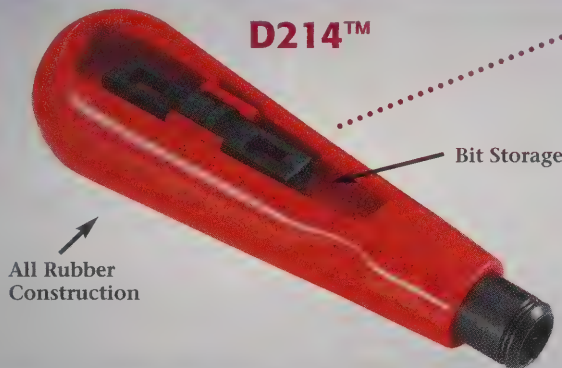
This all-in-one spring-loaded impact tool enables technicians to make more efficient connections with much less effort and out performs all competing termination tools in its class with the number of terminations it will perform. A convenient storage space for an extra blade is located in the handle. The D814 accepts a variety of Harris industry standard blades and is an essential part of a technician's tool pouch.

D214™ Non-Impact Punchdown Tool

■ Lifetime warranty

The D214 Non-Impact Tool is especially effective for scissor blades such as Krone and BIX that seat wires without requiring impact. Cost effective and constructed of durable hard rubber, the tool features a one-piece ergonomically designed handle with a convenient storage space for an extra blade. Accepts all Harris industry standard blades.

D214™



D914S™ Impact Tool

■ Lifetime warranty

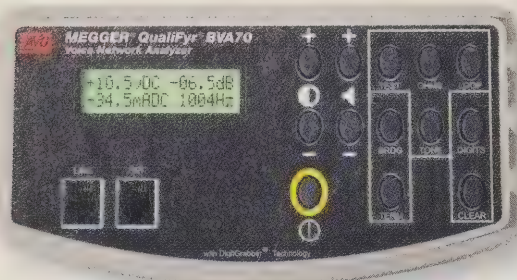
Same great features as the industry standard Harris D914 Impact Tool plus the added benefit of an ergonomic handle! This specially designed rubber handle reduces impact recoil and hand fatigue and may diminish repetitive movement related injuries. The soft rubber handle has rounded edges that provide better grip, which increases the quality and consistency of the termination. Quality installations with the D914S achieve the highest possible certification on network installations, the first time. The D914S, like the standard D914 performs the most termination cycles of any competitive tool in the industry and has been tested under normal conditions to perform upwards of a million punches. No other competing impact tool offers this level of performance. Convenient storage space for an extra blade is located in the handle. Accepts all Harris industry standard blades.

D914S™



Punch Tools

Part No.	Description	Price
117-780	D814 Punch-Down Tool w/66 Block Blade	\$55.15
401-942	D814 Punch-Down Tool w/o Blades	\$48.10
1-663	D814 Punch-Down Tool, 4 Blade Kit, w/66, 110, Wood & Metal Punch Blades	\$135.00
402-221	D914 Tool only	\$57.00
237-214	D214 Tool Handle	\$22.00
237-300	D914S SoftTouch Punch Tool	\$63.13
402-219	Reversible Blade	\$27.78
402-218	1/4" Hex Bit Adapter	\$34.50



Megger.

New

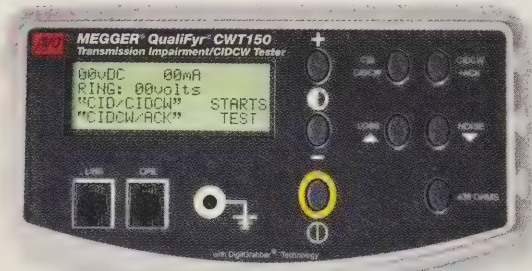
QualiFyr® BVA70 Voice Network Analyzer

Bridges the Gap Between General-purpose Multimeters and Expensive Transmission Test Equipment

- Simultaneously measures network voltage, loop current, signal level & frequency
- Measures dry resistance of loops
- Effective resistance of line on battery
- Loss & Slope readings
- DTMF capture

Specifically designed as a multipurpose test set for installation and maintenance in a telephone environment, the eight test functions are the tests needed on an everyday basis.

Part No.	Model	Description	Price
420-351	BVA70	Voice Network Analyzer	\$491.30



Megger.

New

QualiFyr® CWT150 TIMS/CID Tester

Does the Work of Several More Costly Test Sets

Tests for line voltage and current, noise, balance, loss and slope, as well as comprehensive Caller ID with Call Waiting—all in one compact, lightweight, handheld test set. Complete Subscriber Loop trouble diagnosis reduces the need for multiple test sets. The ONLY test set to do Caller ID Call Waiting.

Part No.	Description	Price
420-352	Transmission Impairment Tester	\$475.00

Test-Um Inc.

Tone Generator and Tracer

The TG100 tone generator outputs a constant tone amplitude over the life of the battery; it doesn't get harder to hear and retains distant tracing qualities. The two types of tones can be set to normal and half amplitude easily with the switch on the front. It provides 6 volts into 600 Ohms with 9 volts of talk battery to power test sets on dead lines. Tone can be injected while talk battery is on allowing test sets with out monitor mode to pick up the tone. Continuity test built-in. Polarity of pair and an indication of AC present are also tested. Auto-off saves battery life.

The TT100 tone tracer includes an adjustable volume control and low frequency filter to reject power line interference. You can replace the tip without opening the case. It has a low battery indicator. The TT100 accepts an optional headset. Both come with 9V batteries and one year warranty.

Part No.	Description	Price
414-253	Tone generator and tracer kit in cordura pouch	\$98.00
TG-100	Tone generator w/alligator clips	\$32.65
TG-101	Tone generator w/ABN clips	\$35.70
TT-100	Tone tracer	\$50.00
191-331	Replacement headset	\$15.75



Test-Um Inc.

Turbo-Tone Ultra-Powerful Tone Generator

- 20 mile range
- Constant output

The most powerful tone generator we offer, yet packaged in a small pocket-sized unit. The Turbo-Tone generates up to 700% more power than conventional tone generators. This extra power has the punch to send tones up to 20 miles away, depending upon the wires. Any standard tone tracer can pick it up. The signal is constant amplitude over the life of the battery. The tone can be powerful enough to pick up through walls and enclosures. Multiple tones and power levels for all applications; Cat 5, signal wire, F-1 etc. Unbalanced tone mode makes tone even on Cat 5 cables. Auto off saves battery life. Full talk battery and a constant polarity indication. Includes case.



Part No.	Description	Price
419-653	Turbo-Tone ultra-high power tone generator	\$66.30



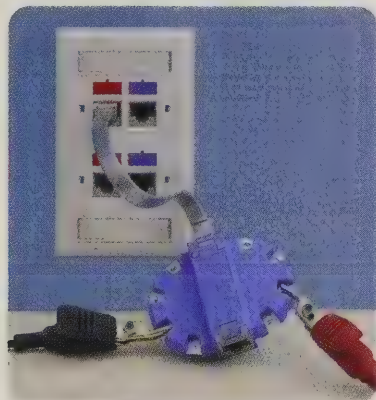
Test-Um Inc.

Latch-Test Security Systems Toner/Tester

- Designed for security techs
- Catches swingers easily
- Saves money, one person operation

Designed specifically for the needs of the security installer and maintenance technician, our Latch-Test is a combination tone generator (operates with any tone tracer) and easy-to-use continuity tester. As a tone generator it offers the usual great features; two tone amplitudes, normal and half. Half amp is unbalanced so the tone propagates down twisted pairs wires such as Cat 5. Three distinct tones can be thrown, so multiple Latch-Tests can be used for identification. Constant amplitude means the signal doesn't degrade as battery voltage drops. Auto off saves battery life. As a continuity tester the Latch-Test makes troubleshooting a one person job. Four modes are available; Normally Open, Normally Closed in either direct real-time readings or latched to catch intermittent 'swingers'. It has audible and visual indications (audible can be turned off). Alligator clips and six pin modular plug. Case included.

Part No.	Description	Price
419-654	Latch-Test security system toner/tester	\$56.10

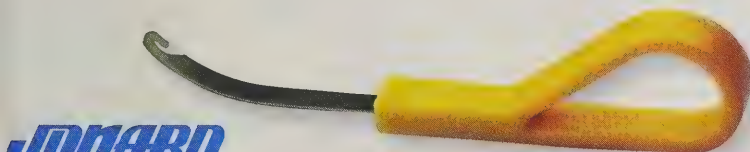


THE
SIEMON COMPANY

Modapt® Modular Adapter

In-line tester allows access to 2-, 4-, 6-, and 8-wire keyed and unkeyed jacks and plugs, without disconnecting the equipment. Comes complete with a removable 7" double-ended universal plug cord. Clips not included.

Part No.	Description	Price
118-785	Modular Adapter	\$22.95



Jonard Cable Lacing Tools

Low cost cable lacing tools from Jonard. For use in dressing cable bundles using twine. Curved sewing needle and loop puller have lightweight, insulated molded handles. Chicago style flat metal needle is 12" long with holes at both ends. Wire loop puller is perfect for pulling wire through terminal blocks, rings on mainframes or fanning strip holes, 8" long.

Part No.	Description	Price
759-006	JIC-3209 Curved sewing needle	\$9.70
759-007	JIC 284 Chicago style flat metal needle	\$6.65
759-009	JIC 2257 Wire loop puller	\$11.20



Telecom Cable Toolkit

A complete set of tools specifically designed for cable sheath slitting, ring cutting, lacing, sewing, parallel drop wire slitting, switch or panel board terminating - everything needed for cable work. The toolkit comes in a handy padded zippered vinyl carrying case and is perfect for use in the central office or in the field. Kit includes: sheath stripper, sheath slitter, ring cutting tool, curved sewing needle, straight 7" sewing needle, wire loop lacing needle, aerial drop wire slitter and straight, flat metal sewing needle.

Part No.	Description	Price
63-020	TK-2 Telecom Cable Toolkit	\$173.40

VIKING DemoLine Telephone Line Simulator

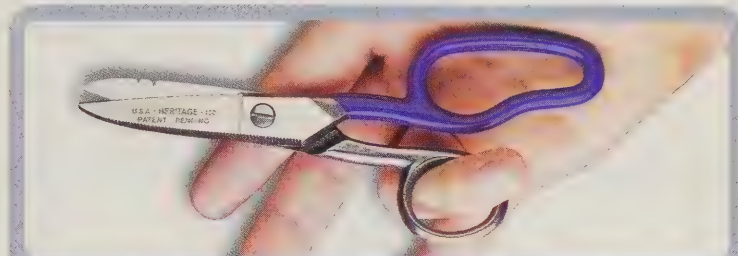
- Two-way call capability
- Test FAX, modems
- Economical test device



Provides a cost-effective, easy-to-use method of conducting preliminary checks on most telecommunication devices.

Compatible with modems, FAX machines, answering machines, or feature phones. With two-way call capability, either line can call the other simply by going "off-hook". Ringback signal is provided to the caller, interrupted ring voltage is applied to the station called. A one-pair talk path and talk battery is provided to complete the simulation. 115 VAC. 1-1/2 x 4-1/4 x 3-1/4", 1 lb. One year warranty.

Part No.	Model	Description	Price
611-100	DLE200B	DemoLine Telephone Line Simulator	\$115.00



Low Fatigue Electrician's Snips

Finally an electrician's scissor which isn't painful to use. Unique large, padded ring adds leverage and spreads pressure. Fits the hand better for less fatigue. New ice-tempered stainless steel construction means no rust, peeling, discoloration, irritation. Serrated with strip notches.

Part No.	Model	Description	Price
458-150	150	Low Fatigue Electrician's Snips	\$15.75



Sheath Tools & Lacing Needles

Part No.	Description	Price
424-979	Comfort Grip Sheath Slitter	\$28.20
63-010	Sheath Slitter	\$24.50
63-013	Sheath Ringer	\$28.05
415-659	Wire Loop Lacing Needle	\$20.40
415-657	Evans Type Curved Notched Sewing Blade	\$13.75
63-011	Similar to 63-012 except w/Straight Blade	\$13.80
415-658	Replacement Needles, Curved, 6/pk.	\$15.45



Premium Stripper/Cutters

- Comfort handles for sure grip
- Super-sharp blades

Designed for a natural grip with extra soft handles. Precision-ground strip holes and sharp, knife-type blades give a perfect, easy strip. Built-in wire cutter.

Part No.	Description	Range	Price
600-415	Stripper/Cutter	10-18 AWG Solid Wire	\$20.40
600-416	Stripper/Cutter	16-26 AWG Stranded Wire	\$20.40
600-417	Stripper/Cutter	22-30 AWG Solid Wire	\$20.40



Reflex™ Premium T® Strippers

Ergonomic Handles Provide Unmatched Comfort

- No slip grips

The Reflex Premium T-Strippers provide clean and accurate stripping while reducing repetitive motion fatigue. The handle grips extend to the stripping head to cushion thumb and fingers from metal. Length, 7".

Part No.	Model	AWG Size	Price
411-016	45-415	10-18 AWG, Solid	\$16.75
411-017	45-416	16-26 AWG, Stranded	\$16.75
411-018	45-417	22-30 AWG, Solid	\$16.75
411-019	45-418	8-16 AWG, Stranded	\$16.75
411-020	45-425-341	0.5mm ² -4.0mm ²	\$16.75



Premium "T" Strippers

Have all the features of famous "T" Strippers plus a plier nose, painted/embossed AWG sizes and a contoured padded grip. Four models to choose from.

Part No.	Model	AWG Size	Price
118-605	45-218	8-16 AWG, Stranded	\$11.70
118-602	45-215	10-18 AWG, Solid	\$11.95
191-822	45-216	16-26 AWG, Stranded	\$11.95
191-824	45-217	22-30 AWG, Solid	\$11.70



"T" Strippers

Accurate Easy Strip Every Time

These sturdy hand tools cut and strip solid and stranded wire from 8 to 30 AWG. Precision-ground blades with black oxide finish that resists corrosion. Length 6". Come with comfortable plastic grips. Four models to choose from.

Part No.	Model	AWG Size	Price
118-570	45-124	8-16 AWG, Stranded	\$9.55
118-567	45-120	10-18 AWG, Solid	\$9.55
118-568	45-121	16-26 AWG, Stranded	\$9.55
118-571	45-125	22-30 AWG, Solid	\$9.55



Ergonomic Super Stripper

Large Air-Pocket Cushion Grips For Greater Comfort

Long curved cutter requires less force to cut. Holes in jaw for looping wire. Screw sizing stations for 6-32 and 8-32 screws. Lock to protect cutting and stripping edges when stored. 7-1/4" overall length.

Part No.	Model	AWG Size	Price
423-339	56EB	10-20 AWG, Solid/Stranded	\$12.60
423-340	66EB	20-32 AWG, Solid/Stranded	\$13.40



H-D Strippers and Cutters

Large Air-Pocket Cushion Grips For Greater Comfort

Serrated plier nose for pulling and looping wire and working small nuts. 2-piece hardened steel pivot for lifetime service. Spring assist to help speed work.

Part No.	Model	AWG Size	Price
423-336	31E	10-20 AWG, Solid	\$8.20
423-337	32E	16-26 AWG, Solid	\$8.20
423-338	33E	22-30 AWG, Solid	\$8.20



Kinetic Super Wire Strippers

- Ergonomically engineered
- Molded Santoprene grip cushions hand

The Thumb-Valley guide and precision stripping holes promotes comfort while focusing kinetic energy for faster wire stripping. Narrow plier nose is perfect for holding and twisting wires, and the Shear-Cut bolt cutters easily shears both bolts and screws while reforming the threads. (USA)

Part No.	Description	Price
419-685	Kinetic Super Wire Strippers 10-18 AWG Solid	\$21.40
419-686	Kinetic Super Wire Strippers 16-26 AWG Stranded	\$21.40
425-540	Kinetic Super Wire Strippers 22-30 AWG Solid	\$21.40
419-688	Kinetic Super Wire Strippers 8-16 AWG Solid/Stranded	\$21.40

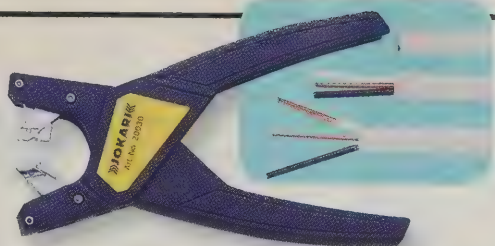
Wire Stripper/Cutters

Quality hand tools accurately strip insulation without cutting the conductor. Plier-type nose is ideal for pulling and forming wires. Plastic grips and automatic return springs reduce operator fatigue. 6" long.

Part No.	Model	AWG Size	Price
118-667	C124	8-16 AWG, Stranded	\$8.50
118-665	C120	10-20 AWG, Solid	\$8.50
118-666	C121	16-26 AWG, Stranded	\$8.50
118-668	C125	22-30 AWG, Solid	\$8.75



C.K. Automatic Cable Stripper for Romex® Type Cable



Strips outer jacket and inner insulation of conductors for cable 8 to 13 AWG. Fits right in your hand and operates with the lowest possible force to reduce fatigue. Feeds from the front so it can reach into the tightest places. Comes complete with stainless steel, self-adjusting blades.

Part No.	Description	Price
403-746	Cable Stripper	\$69.59

Paladin Tools

STRIPAX Wire Strippers

■ Factory lifetime warranty (excluding blades)

Strips solid and stranded PVC insulated wires; built-in wire cutter, adjustable depth stop. Front feed allows stripping in confined spaces. Automatically adjusts for wire size.

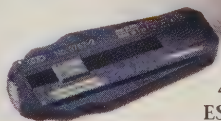


Part No.	Description	Range	Price
412-158	Stripax Pro 6 Wire Stripper	28-10 AWG	\$76.00
497-115	Mini-Stripax Plus Wire Stripper	28-18 AWG	\$71.00
412-159	Stripax Pro 16 Wire Stripper	10-6 AWG	\$95.90
412-160	Replacement Stripper Jaws for 412-158	—	\$31.60
497-108	Replacement Stripper Jaws for 497-115	—	\$22.40
412-161	Replacement Stripper Jaws for 412-159	—	\$39.90

C.K. Precision Wire Stripper

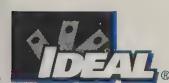
Select one of six different settings. Calibrated wire stop to 2".

118-524
118-523



403-748
ESD Model

Part No.	Description	Range	Price
118-524	Wire Stripper	20-30 AWG	\$50.73
118-523	Wire Stripper	26-36 AWG	\$50.73
403-748	ESD-Safe Nickless Stripper	20-30 AWG	\$60.23



Round Cable Stripper

■ Factory lifetime warranty (excluding blades)

Slits cable both longitudinally and circumferentially. Cutting blade is adjustable for depth of cut.



Part No.	Description	Range	Price
174-697	Round Cable Stripper	4/0 AWG	\$46.40
497-210	Replacement Blades, 2/pkg.	—	\$13.95



JENSEN
Lifetime Guarantee

Stripper, Cutter and Crimper

■ Inch/metric

■ Bolt cutter



Strips wire and crimps insulated terminals in wire sizes 22-10 AWG (metric: .75-6mm). Cuts six sizes of bolts, 4-40, 5-40, 6-32, 8-32, 10-24, 10-32 (metric: M2.6 M3, M3.5, M4, M4.5, M5). Serrated-jaw and narrow nose pull wire, bend loops, loosen or tighten small nuts. Cushion grip handles. 8-1/4".

Part No.	Description	Price
71-100	Inch Stripper/Cutter/Crimper	\$15.85
36-637	Metric Stripper/Cutter/Crimper	\$22.25

JENSEN
Lifetime Guarantee

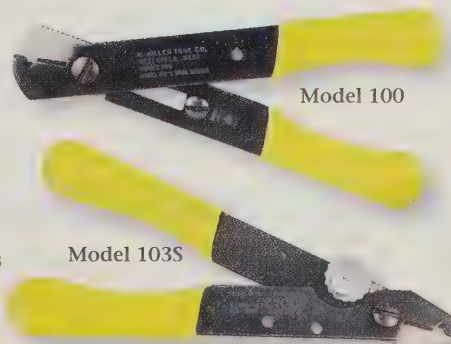
Wire Strippers

Compact multi-gauge wire strippers with comfortable vinyl grips. Small economy tools cover a wide range of wire sizes up to 10 AWG. Screw adjustment to preset wire size. For precision stripping, the deluxe models offer a separate stripping notch for each wire size within the range of the tool. Stranded wire stripper (not shown) has red handles.

Part No.	Description	Range	Price
211-100	Wire Stripper w/o Spring	28-10 AWG	\$4.25
211-101	Wire Stripper w/Spring	28-10 AWG	\$4.65
45-080	Deluxe Solid Wire Stripper	18-10 AWG	\$8.55
45-100	Deluxe Solid Wire Stripper	30-22 AWG	\$9.45
45-090	Deluxe Stranded Wire Stripper	26-16 AWG	\$8.80

Wire Strippers

These popular ground tools have cutting edges and are suitable for cutting and stripping all commonly used insulated wires and cables. Available with screw stop or with cam adjustment, and with or without return spring.



Part No.	Model	Description	Price
118-478	100	With Screw Stop	\$6.25
191-820	101S	With Screw Stop & Springs	\$7.25
118-486	103S	With Cam Stop & Springs	\$7.75



Custom Stripmaster® and Custom Stripmaster Lite® Wire Strippers

Strips Wire Clean with a Single Squeeze

- Strips 10-30 AWG solid or stranded wire
- Ideal for Teflon & other "tough" insulations
- Die-type blades allow precision stripping
- Cushioned, comfort grip handles

Two tool sizes to choose from. Custom Stripmaster is 7" long and delivers a strip up to 7/8". Custom Stripmaster Lite, ideal for high productivity, is 5-7/8" long and delivers a strip up to 5/8".

Custom Stripmaster — 7" Long

Part No.	Model	Description	Gauge	Price
118-586	45-170	General-Purpose Plastic*	10-14 AWG	\$148.45
118-587	45-171	General-Purpose Plastic*	16-26 AWG	\$145.34
118-590	45-174	Type EE 1000V Teflon	16-26 AWG	\$148.45
45-211	45-177	Type E 600V Teflon	16-26 AWG	\$141.85
118-735	L-5270	Clear Adjustable Wire Stop	Wire Stop	\$6.20

*Including fiberglass and other hard-to-strip insulations.

Custom Stripmaster Lite — 5-7/8" Long

Part No.	Model	Description	Gauge	Price
118-611	45-632	General-Purpose Plastic*	16-22 AWG	\$143.65
118-613	45-634	General-Purpose Plastic*	24-30 AWG	\$143.65
118-615	45-639	Type E, 600V Teflon	20-26 AWG	\$148.50

*Including fiberglass and other hard-to-strip insulations

No-Nik® Wire Strippers

Precision cutting-type strippers remove insulation from solid and stranded wires without nicking, cutting, or scraping conductors. Cutting-blade diameters range from .008" to 0.054"-accurate to 0.0005". Handles are color-coded and diameter sizes are clearly marked on each tool for easy identification. Length 5-1/4".

Part No.	Model	Suggested AWG Wire*		Handle Color	Price
118-807	NN008	34, 36	36	Red	\$41.85
118-808	NN010	32, 34	32, 34	Lt. Blue	\$41.85
4-303	NN012	30, 32	32	White	\$41.85
118-810	NN014	28, 30	30	Dk. Green	\$41.85
4-307	NN016	28	28, 30	Orange	\$37.20
118-812	NN018	26	28	Yellow	\$37.20
118-813	NN021	26	26	Dk. Blue	\$37.20
118-814	NN023	24	26	Maroon	\$37.20
118-815	NN025	24	24	Lt. Green	\$37.20

*Is function of type of insulation



Stripmaster® and Stripmaster Lite® Wire Strippers

One-Step Stripping Increases Productivity

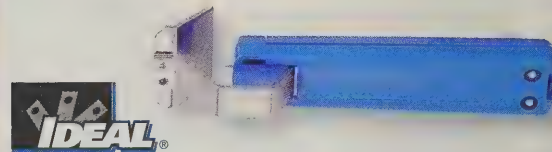
- Knife-type blades provide 8-30 AWG stripping (solid and stranded)
- Spring-action motion reduces operator fatigue

Two tool sizes to choose from. Stripmaster is 7" long and delivers a strip up to 7/8". Stripmaster Lite is 5-7/8" long and delivers a strip up to 5/8".

Part No.	Model	Gauge	Price
118-559	45-090	8-12 AWG	\$30.85
118-560	45-091	10-18 AWG	\$29.90
118-561	45-092	10-22 AWG	\$31.50
118-562	45-093	14-22 AWG	\$29.90
118-564	45-097	16-26 AWG	\$31.25
118-565	45-098	20-30 AWG	\$30.75
118-735	L-5270	Wire Stop	\$6.20

Stripmaster Lite — 5-5/8" Long

Part No.	Model	Gauge	Price
118-616	45-671	16-22 AWG	\$41.25
118-617	45-672	24-30 AWG	\$41.25



Swivel-Blade Cable Stripper

- For end or center stripping of coaxial or power cables from 3/4" through 1-1/2" O.D.
- Strips insulation to 5/32"
- Spare blade in handle

Neatly cuts outer sheathing without damaging inner conductor or insulation. Strips a wide variety of insulations including PVC, rubber, neoprene, Teflon, Kapton, and fiberglass.

Part No.	Description	Price
118-573	3/16" to 3/4"	\$24.25
118-574	3/4" to 1-1/2"	\$33.65



Self Adjusting Wire Stripper

- Self adjusting blades strip 10-26 AWG
- Strip length is adjustable from 1/8" - 3/4"
- For PVC, THHN, and THW insulation densities
- Built-in wire cutter

Automatically adjusts to cut and strip solid or stranded wires. Specially molded blade pad enables blades to conform around insulation for precise, nick free strips every time, with minimal hand pressure. 8" long.

Part No.	Model	Description	Price
400-834	45-327	Wire Stripper	\$89.90
400-833	LA2524	Replacement Blades	\$37.40

Stripall Handheld Thermal Stripper

- Strips wire from 12 to 38 AWG

Heats in less than two seconds to 1700°F. Stripall blades are long lasting, inexpensive, and easily replaced. 115VAC, 3 wire cord. Comes with notched blades.

Part No.	Description	Range	Price
118-893	Thermal Stripper w/o Temp. Control	36-10 AWG	\$232.20
118-894	Thermal Stripper w/SCR Control	36-10 AWG	\$303.35
44-715	Blades, Notched, pair	10-25 AWG	\$8.45
118-474	Blades, Blank, pair	26-36 AWG	\$8.45

Paladin Tools

Coaxial Cable Stripper

- Strips cable from .100 to .315" diameter

Interchangeable blade cassettes change the strip dimensions and each blade can be adjusted to any depth of cut. A unique removable adjustment module speeds up stripping of different cables by allowing you to set the adjusters (one included) for each type of cable. The variable tool allows you to change strip dimensions in mm increments. Lifetime warranty (except blades)



Variable

Strippers

Part No.	Mfr. No./Description	Figure 1		Price
		A	B	
412-741	3240 Variable Stripper	n/a	n/a	\$67.85
118-833	1241 w/Blue Cassette	.256"	—	\$69.65
160-699	1240 w/Green Cassette	.279"	.201"	\$60.30
497-352	1246 w/Gray Cassette	.153"	—	\$69.85
118-835	1243 w/Brown Cassette	.295"	.137"	\$71.05

Replacement Cassettes

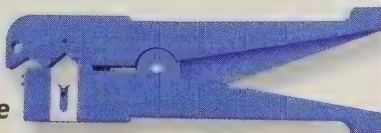
Part No.	Description	Figure 1		Price
		A	B	
497-152	Blue	.256"	—	\$26.50
497-154	Green	.279"	.201"	\$26.50
497-357	Gray	.153"	—	\$27.05
497-243	Brown	.295"	.137"	\$26.50
160-700	Extra Adjustment Module	—	—	\$24.00
497-242	Replacement Blades for Variable Stripper	—	—	\$37.45



Coax Cable Stripper

Low Cost and Easy to Operate

Adjustable nick-free blades strip to specification on a variety of coaxial cable up to 9/16" diameter. Handle termination and "window-strips" easily. Lightweight, compact, inexpensive, and simple to operate. All strippers are 3-3/8" long except 118-583 which is 7" long.



2-Level Strip

Part No.	For Cable O.D.	Strip Range A	Price
118-581	Up to 1/8"	.230"-.275"	\$21.30
118-582	1/8" to 7/32"	.230"-.275"	\$20.80
118-584	3/16" to 5/16"	.230"-.275"	\$19.95
118-583	1/4" to 9/16"	.480"-.530"	\$33.95

Replacement Blades

Part No.	Description	Price
118-773	Fits 118-581, 118-582, 118-584	\$5.50
118-774	Fits 118-583	\$7.55

Paladin Tools

Data SureStrip Cable Cutter & Stripper

The Data SureStrip is a universal, easy-to-use, cable cutter and stripper for data, telephone, and network installations. It works for shielded and unshielded twisted pair data cables, 25-pair multi-conductor cables, 4-, 6-, and 8- conductor flat satin cable, and 14-8 AWG hook-up wire. It is fully adjustable, self-regulating to prevent nicking and small enough to fit in a shirt pocket.



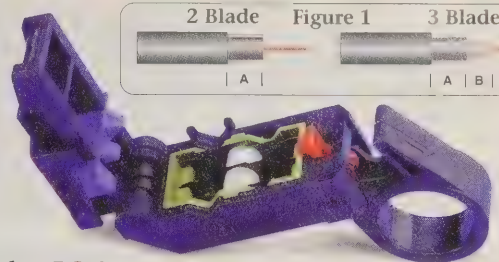
Part No.	Description	Price
419-695	Data SureStrip Cable Cutter & Stripper	\$20.35

Xcelite

Coaxial Cable Strippers

- Strips RG-174 thru RG-6

Provides quick and easy stripping of many sizes of coaxial cables. Razor-sharp blades are securely housed in interchangeable cassettes and provide thousands of perfect strips. Cassettes are color-coded for easy determination of strip dimensions. Replacement cassettes are available.



Coaxial Cable Strippers

Part No.	Mfr. No./Description	Figure 1		Price
		A	B	
118-517	2CSK-R 2 Blade, Red	.250"	—	\$52.55
118-516	2CSK-B 2 Blade, Blue	.270"	—	\$56.45
118-518	2CSK-Y 2 Blade, Yellow	.470"	—	\$56.70
118-530	3CSK-BR 3 Blade, Brown	.328"	.109"	\$60.30
118-531	3CSK-GN 3 Blade, Green	.235"	.235"	\$60.30
415-668	3CSK-WH 3 Blade, White	.266"	.063"	\$55.55

Replacement Cassettes

Part No.	Description	Price
118-512	Red	\$21.70
118-511	Blue	\$21.70
118-527	Brown	\$24.35
118-528	Green	\$24.35
182-007	White	\$24.35
424-510	Green	\$61.80



Coaxial Cable Strippers

- Built-in cutter/trimmer
- Strips RG-58 thru RG-6

Once the tools are properly adjusted to the cable, they perform neat and clean cuts time after time. The cassettes holding the blades are interchangeable for different length of strip and are fully adjustable to different cable diameters. Lifetime warranty (except blades).



Strippers

Part No.	Description	Figure 1		Price
		A	B	
118-643	45-520 w/Black Cassette	.240"	.240"	\$37.05
191-607	45-521 w/Brown Cassette	.328"	.109"	\$30.60
118-645	45-526 w/Blue Cassette	.250"	—	\$35.70

Replacement Cassettes

Part No.	Description	Figure 1		Price
		A	B	
118-647	Black	.240"	.240"	\$10.05
118-648	Brown	.328"	.109"	\$9.10
118-649	Blue	.250"	—	\$9.90

Multi-Pair Ringer

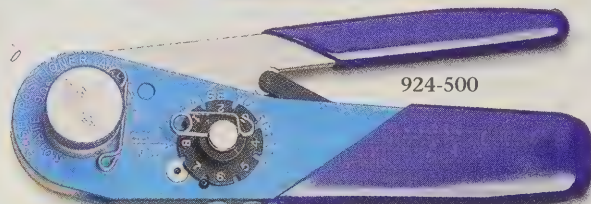
Low cost disposable pair stripper removes jacket cleanly and quickly. Available in 2, 3, 4 pair sizes.

Part No.	Description	Price
118-681	2, 3, 4 Pair Multi-Pair Ringers	\$7.45





924-320



924-500



Miniature Crimping Tools

- Available in Mil-Spec and commercial
- Standard and high density

Designed to accommodate most miniature and sub-miniature connector types used in electronic systems that use "screw-machined" size 20 DM contacts. Separate replaceable positioner for use with tool frame 924-201 are listed below for Mil-Spec Mil-C-22520/2 (color-banded) and "commercial-grade" (no color bands) pins and sockets. Tool frame 924-201 offers an eight-position crimp depth adjustment, precision ratchet action and produces a Mil-Standard 8-indent crimp for perfect results every time. Also listed below are economical versions with fixed depth-of-crimp, non-removable positioners plus a Go-No-Go gauge.

Part No.	Description	Price
924-500	Crimp Tool w/Mil-Spec Positioner	\$325.00
924-201	AFM8 Tool Frame w/o Positioner	\$302.50
924-455	Positioner for Mil-Spec Contacts 20 DM	\$55.50
924-155	Positioner: Commercial Contacts 20 DM	\$58.50
924-125	Go-No-Go Gauge	\$69.50
924-320	Fixed Crimp Tool: Mil-Spec Contacts	\$295.00
924-215	Fixed Crimp Tool: Commercial Contacts	\$299.95



924-008



AF8 Upper Range Crimp Tool

- Qualified to MIL-C-22520/1
- Wire range: 12 thru 26 AWG

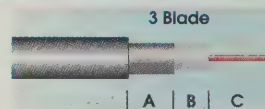
Features a standard eight-impession crimp to assure absolute maximum tensile strength plus a precision ratchet to deliver the same accurate crimp time after time. Positive crimp depth is controlled by an eight position selector knob. TH1A (front release contacts) and TH163 (rear release contacts) Turret Heads have three positions: 12 (Yellow), 16 (Blue) and 20 (Red) to handle wire sizes from 12 thru 26 AWG. The Universal Positioner, UH2-5, is ideally suited for both lab and prototype work. Rotating height adjusting screw assures proper contact positioning.

Part No.	Description	Price
924-008	AF8 Crimp Tool Frame	\$307.50
924-025	UH2-5 Universal Positioner	\$84.60
924-001	TH1A Turret Head Positioner	\$117.75
924-163	TH163 Turret Head Positioner	\$93.15
924-125	Go-No-Go Gauge	\$69.50

Portable Coaxial Cable Stripper

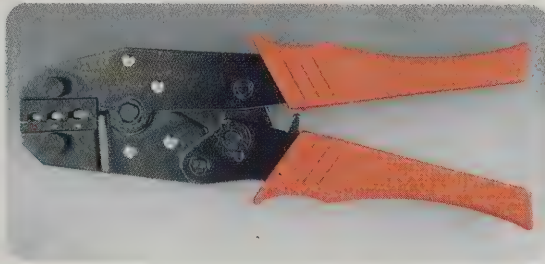
- Perfect for Coaxial, Triaxial, and Semi-Rigid Cable
- Fast, precise cuts

When you have applications that require multiple Coaxial connector terminations, this Ni-Cad battery powered hand-held cable stripper can deliver production quality strips in less than five seconds. The quick-change very precise cutter heads have blades that last up to 15,000 strips. It's approved for use in Telecommunications, OEM's, Aerospace, RF Microwave or any field where precision and repeatability is required. Cutter heads are available for all types of cable and connectors. Each unit comes complete with Ni-Cad battery pack (good for up to 250 strips per charge) and charger. The Kit includes battery-powered cable stripper, cutter head for 735 cable (709-006), Ni-Cad battery pack, AC charger, all supplied in a carry case with additional space for an extra cutter head.



Part No.	Description	Price
709-725	Portable Coaxial Cable Stripper	\$260.00
709-715	Portable Coaxial Cable Stripper Kit	\$368.00
709-005	735A Cutter Head	\$127.50
709-006	735 Cutter Head	\$127.50
709-007	734A Cutter Head	\$127.50
709-008	734 Cutter Head	\$127.50
418-825	RG59/6 "F" Cutter Head	\$127.50

Part No.	Dimensions			Application
	A	B	C	
709-005	.344	.093	.156	735 Cable or .110"-.160" OD (for Trompeter, ADC BNC & Amphenol connectors)
709-006	.312	.156	.156	735 Cable or .110"-.160" OD (for Lucent, ITT Cannon & Kings connectors)
709-007	.344	.093	.156	734 Cable or .235"-.270" OD (for Trompeter, ADC BNC & Amphenol connectors)
709-008	.312	.156	.156	734 Cable or .235"-.270" OD (for Lucent, ITT Cannon & Kings connectors)
418-825	.250		.250	RG59/6 Cable "F" Connectors



Dies sold separately

Paladin Tools

Crimping Tool for Insulated Terminals and Splices

Double-action ratcheted hand tool crimps insulated terminals and splices. Integral dies give electrical and mechanical crimp simultaneously. Two models to choose from. Model PA1305 (shown) has three cavities (Red, Blue, Yellow). Model PA1605 is a heavy-duty crimper designed for continuous production line use, has two cavities (Red and Blue) and features a built-in locator.

Part No.	Model	AWG Size	Length	Price
126-019	PA1305	12-22 AWG	9"	\$55.60
126-028	PA1605	14-22 AWG	8"	\$104.35



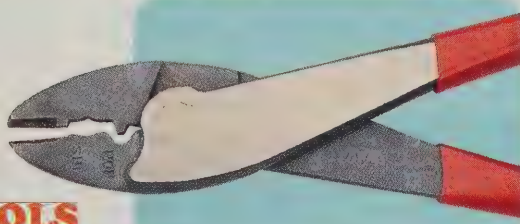
Crimper for Insulated Terminals

High Quality Electrical and Mechanical Crimps

- Crimps red, yellow, and blue
- 10-22 AWG

Full cycle ratchet-controlled tool crimps both the conductor and insulated portion of Red, Yellow, and Blue insulated terminals from 10-22 AWG wire size. Features pressure adjustment control and molded plastic handles. 9" long.

Part No.	Description	Price
125-893	Crimper for Insul. Terminals	\$58.35



KLEIN TOOLS

Crimping Pliers

- Tapered nose design for working in confined spaces
- Specially hardened wire cutter in nose.
- Plastic-dipped, cushioned handles for comfort.

Part No. 125-811 crimps non-insulated solderless terminals and connectors in gauges 10-22 AWG. Part No. 125-809 will crimp both insulated and non-insulated solderless terminals and connectors in gauges 10-22 AWG. Length 9-3/4".

Part No.	Description	Price
125-811	Non-Insulated Connectors	\$31.82
125-809	Ins./Non-Ins. Connectors	\$30.81

Paladin Tools

CrimpALL™ 8000 Series Crimp Tool

- Smaller grip on handles for small hand operation
- Higher crimp force with lower hand force application
- Soft rubber-embedded handles for comfortable grip
- Fine blanking manufacturing of frame to ensure long life-span

Part No.	Description	Price
415-822	CrimpALL 8000 Series Crimp Tool	\$43.40
415-828	RJ45 (8 Position) Die	\$21.25
497-033	RJ45 (8 Position) Die for AMP Plugs	\$21.25
415-829	RJ11 (6 Position) Die	\$21.25
497-035	Insulated Terminal 22-10AWG Die	\$21.25
415-826	Non-Insulated Terminal 22-8AWG Die	\$21.25
497-037	RG58,59,62 BNC/TNC Die (.256, .213, .068") Hex	\$22.95
175-174	RG59, 6 CATV "F" Die (.346, .315, .256") Hex	\$21.25
497-039	RG6, RG6 Quad BNC & CATV "F" Die (.360, .324, .068") Hex	\$21.25
418-820	RG174, RG59/62, HDTV & BNC/TNC Die (.255, .197, .178, .068, .042"sq) Hex	\$21.45
418-821	RG59/6, HDTV & BNC/TNC, "F" Die (.324, .255, .068, .052sq, .042"sq) Hex	\$21.45
418-822	RG6, HDTV & BNC/TNC Die (.278, .275, .068, .042"sq) Hex	\$21.45



Paladin Tools

Crimping Tools for Open-Barrel Contacts

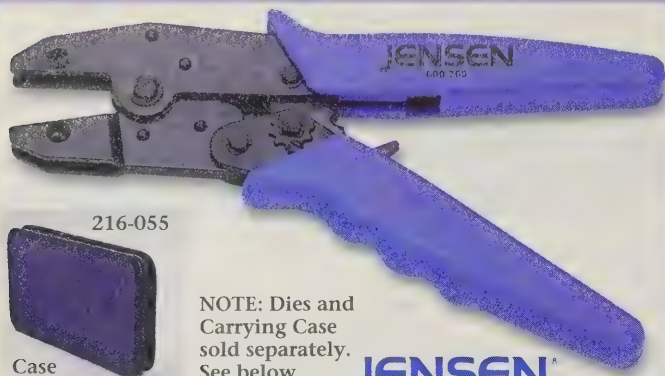
Repeatable and Reliable Crimps

Double-action ratcheted hand tool crimps open-barrel pins and sockets from 14-30 AWG, and 0.062 pins, box contacts, 0.025 receptacles, and other small barrel configurations. Crimp dies, rated for over 50,000 cycles, are designed for the most common crimp styles. Length 7-1/2", with molded plastic handles. Two models to choose from.

Part No.	Model	AWG Size	Price
126-033	PA1631	14 to 24 AWG	\$178.50
126-034	PA1645	18 to 30 AWG	\$132.60



Not quite sure which product best suits your needs? Call Technical Support at 1-888-866-5487.



NOTE: Dies and Carrying Case sold separately. See below.

JENSEN
Lifetime Guarantee



700 Series Crimp Tool Frame

- All steel construction
- Terminate coax, RS-232, fiber optic, modular, insulated terminals
- Full cycle ratchet action



Part No.	Description	Price
600-700	Crimp Tool Frame	\$44.00

Crimp Tool Dies & Carrying Case*

Modular Plug Die Sets, 2 piece

Part No.	Model	Description	Price
600-556	30-556	6 Position RJ-11 Die Set	\$36.70
600-558	30-558	6 Position MMJ DEconnect (RJ-11 w/Offset Latch) Die Set	\$33.80
600-559	30-559	8 Position RJ-45 Die Set	\$37.80
409-917	30-560	8 Position (RJ-45) Crimps Both Strain Reliefs on AMP Plugs	\$39.95
181-856	30-561	10 Position (RJ-45) Crimps Both Strain Reliefs	\$35.00

Fiber Optics Plug Die Sets, 2 piece

Part No.	Model	Description	Price
181-866	30-597	SMA, Fits AMP Plugs (Round 0.195")	\$18.00
181-860	30-596	SMA, SMB, SFR (HEX 0.151, 0.178, 0.213")	\$18.00

*Dies are not covered by lifetime guarantee.

Coaxial Plug Die Sets, 2 piece

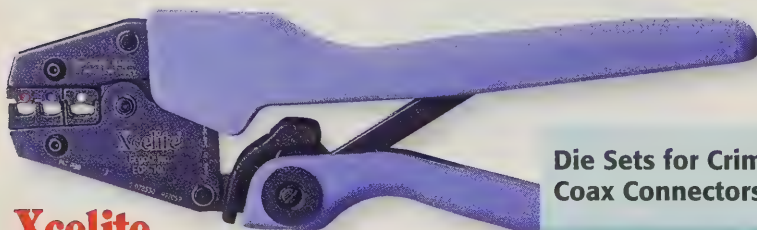
Part No.	Model	Description	Price
600-201	30-581	RG-58, 59/62, BNC & TNC (Hex 0.255, 0.213, 0.068")	\$20.35
191-583	30-591	RG-58, 59/62, BNC & TNC (Hex 0.213, 0.190, 0.068, 0.042")	\$20.35
125-941	30-577	RG-8/11 N-series Thicknet (Hex 0.429, 0.100, 0.080")	\$31.90
125-940	30-578	RG-59, 6, and 8281 50 and 75Ω (Hex 0.324, 0.255, 0.068, 0.042")	\$30.35
125-942	30-576	RG-174, Mini 59 BNC/TNC (Hex 0.178, 0.128, 0.068")	\$24.25
409-716	30-582	RG-59, 6 F-Series (Hex 0.350, 0.320, 0.255")	\$24.50

Other Connectors

Part No.	Model	Description	Price
600-214	60-579	Insulated Terminals, Red, Blue, Yellow	\$20.35
409-462	30-586	Open-Barrel, Molex Style Pins	\$24.40
600-205	30-599	Open-Barrel, Pins & Sockets	\$26.00

Optional Carrying Case

Part No.	Description	Size	Price
216-055	Case	10-1/4" x 6" x 1-1/4"	\$15.00



Xcelite

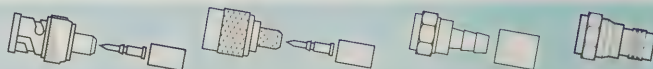
Ergocrimp Plus Crimping Tool

Ergonomic Design Allows Single-Handed Operation

The Ergocrimp Plus ratchet tool is designed to achieve maximum operator comfort. The patented design delivers superior mechanical gain requiring 50% less operator handle force than other hand tools. All components are made of high-quality swedish steel and life tested for 50,000 cycles. Dimension: 8.66". Weight 1.1 lbs. Order die sets separately.

Part No.	Model	Description	Price
160-516	ECP000	ErgoCrimp Plus Tool Frame	\$70.10

Die Sets for Crimping Coax Connectors



Part No.	Model	Nest Size (in.)	Description	Price
408-930	D109	Hex. 0.213, 0.178, 0.151	Crimps SMA/SFR Fiber Optic Connectors	\$64.85
408-923	D102	Hex. 0.213, 0.255, 0.068	Crimps RG58, RG59/62A/U BNC/TNC Connectors	\$52.60
408-924	D103	Hex. 0.213, 0.178, 0.068	Crimps RG58 Connectors, 50 and 75 ohm Center Contacts	\$52.60
408-925	D104	Hex. 0.213, 0.178, 0.068, 0.042	Crimps RG59, Belden 8281, 50 and 75 ohm Center Contacts	\$52.60
408-926	D105	Hex. 0.178, 0.128, 0.068	Crimps RG174 BNC/TNC Connectors	\$52.60
408-927	D106	Hex. 0.213, 0.429, 0.100, 0.080	Crimps RG8, RG11, RG213 and RG216 Ethernet N-Series Connectors	\$52.60

Die Sets for Crimping Terminals



Part No.	Model	Description	Price
408-921	D100	Insulated Red, Blue and Yellow Terminals and Splices, 22-10 AWG	\$59.60
408-922	D101	Non-Insulated Terminals and Splices, 22-10 AWG	\$64.85
408-929	D108	Open-Barrel and D-Subminiature Contacts, 30-20 AWG	\$91.65

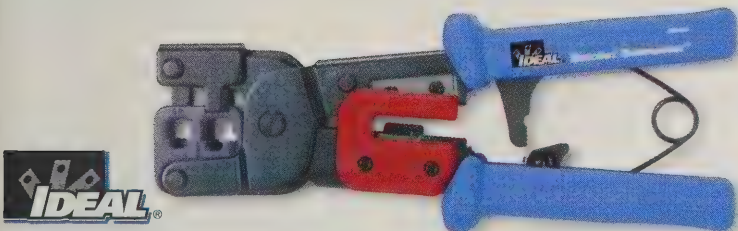


AMP®

Modular Crimping Tool

- Cuts and strips cable jacket insulation
- Terminates modular plug connectors

Part No.	Description	Price
80-020	Crimp Tool Frame	\$101.00
402-496	RJ-11 4-6 Position Linecord Crimper with Die	\$144.65
130-061	RJ-22 4 Position Handset Crimper with Die	\$155.05
402-500	Replacement Stripper Blade Assembly	\$6.25
125-974	RJ-11 4-6 Position Die Only	\$49.90
125-972	RJ-22 4 Position Die Only	\$50.00
125-973	MMJ DEConnect Die Only	\$44.95
402-497	RJ-45 8 Position, Die only (Use AMP Plugs only)	\$53.60
80-007	CAT-5 RJ-45 Die Sets for AMP CAT 5 Plugs	\$45.90



Ratcheting Telemaster Modular Crimper

Cuts, strips and crimps six and eight conductor modular plugs onto flat telephone cables. Crimps onto round cables. This tool features all steel construction and a smooth, repeatable, ratchet controlled crimp cycle. No secondary strain relief crimp makes it universal with all types of plugs, including combed Category 5 plugs.

Part No.	Description	Price
408-966	30-696 Ratcheting Telemaster Crimper	\$52.50

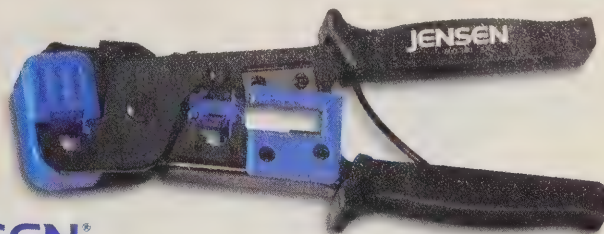


Paladin Tools

All-In-One Telephone Tool

Cuts, strips and crimps modular telephone wires and plugs. Cuts and strips flat line cord up to 8 conductors wide. Crimps handset connectors, RJ-11 and RJ-45 plugs with no die change. Five year warranty.

Part No.	Description	Price
126-024	1530R All-in-One Telephone Tool	\$116.00



JENSEN®

Lifetime Guarantee

Modular Crimper

Built in Dies Make Crimping Easy

An extremely practical tool that is used for RJ-11 and RJ-45 applications. Both dies are built into the tool so you can never lose them and it will always be ready to crimp when you are. The built-in cutter and stripper make it easier to prepare the wire before crimping.

Part No.	Description	Price
600-360	RJ-11/RJ-45 Modular Crimp Tool	\$51.50



Modular Crimp Tools

Unique tool features two built-in crimping dies, plus a cutter and stripper.

Part No.	Description	Price
125-949	30-499 RJ-11/RJ-22 Crimper	\$46.10
125-948	30-497 RJ-45/MMJ DEConnect Crimper	\$45.90
125-950	30-498 RJ-11/MMJ DEConnect Crimper	\$45.90



Paladin Tools

SealTite™ - 59/6 Crimp Tool

Performs snap crimping of waterproof CATV "F" connectors for RG59 and RG6 75 ohm coaxial cables. A fully ratcheting one-cycle crimp function ensures a positive crimp each time. Works on Augat/T&B Snap-N-Seal™ connectors, AIM CATV "F" waterproof connectors and Paladin SealTite™ connectors.

Part No.	Description	Price
497-105	SealTite™- 59/6 Crimp Tool	\$45.90



JENSEN®
Lifetime Guarantee

Stamped Steel Crimpers

Crimps insulated and uninsulated terminals and splices in wire sizes 26-10 AWG. Confined trapezoidal crimping dies provide better electrical and mechanical terminations. Color-coded dies correspond to color of terminal insulation to assure proper die selection. Built-in wire stripper, wire cutter and bolt cutter. Cushioned handles.

Part No.	Description	Price
80-521	Wire Stripper/Crimping Tool	\$13.20



(Die sold separately)

JENSEN®
Lifetime Guarantee

Open Barrel Crimp Tool

Ergonomically designed handles and smooth ratchet action for comfort and precise crimps.

Part No.	Description	AWG	Price
600-700	Crimp Tool Frame	—	\$44.00
600-205	Open-Barrel, Pins & Sockets	18-30	\$26.00

* Lifetime Guarantee on Frame only.

New

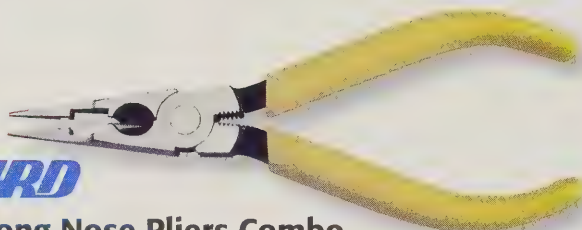
JONARD

Crimper/Long Nose Pliers Combo

Have Your Long Nose Pliers and Crimpers in One Tool

Combines the features of a long nose plier with a connector-crimping plier. Press UR, UG & UY connectors while stripping and working wire with the long nose. Includes a crusher for multipurpose wire work and a stripping hole 0.030" yellow handle, 7" length.

Part No.	Model	Description	Price
424-977	JIC-22148	Crimper/Long Nose Pliers Combo	\$29.70



IDEAL

Open Barrel Crimper

Crimps commercial grade stamped open barrel contacts, D-sub contacts and high density double-D miniature contacts. Includes crimp nest for insulated terminals (10-22AWG) and cuts machine screws and bolts. Cushion grip handles.

Part No.	Description	Price
412-129	Open Barrel Crimper	\$42.85



Thomas&Betts

Snap-N-Seal® Installation Tool & Environmentally Sealed Connectors

- Minimizes signal leakage
- Perfect for outdoor & indoor applications

Snap-N-Seal® connectors are environmentally sealed to protect drops from harsh environments. Through a unique 360° compression process, Snap-N-Seal® connectors also offers signal leakage protection required for today's demanding systems. The IT1000 includes a built in stripper to prepare the cable and the crimper to properly install the connectors.

Part No.	Description	Price
462-125	IT1000 Crimp/Strip Tool	\$88.30
462-126	RG6 Snap-N-Seal® "F" Connectors, 50/pk.	\$38.35
462-127	RG6QS Snap-N-Seal® "F" Connectors, 50/pk.	\$32.50
462-128	RG59 Snap-N-Seal® "F" Connectors, 50/pk.	\$37.95
462-129	Replacement Blade	\$16.85



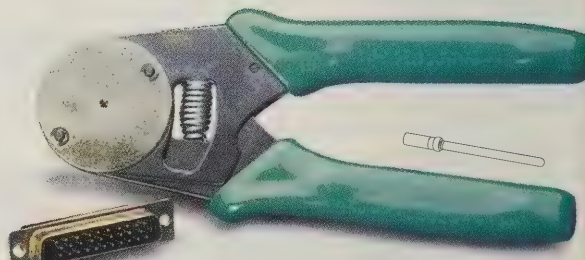
IDEAL

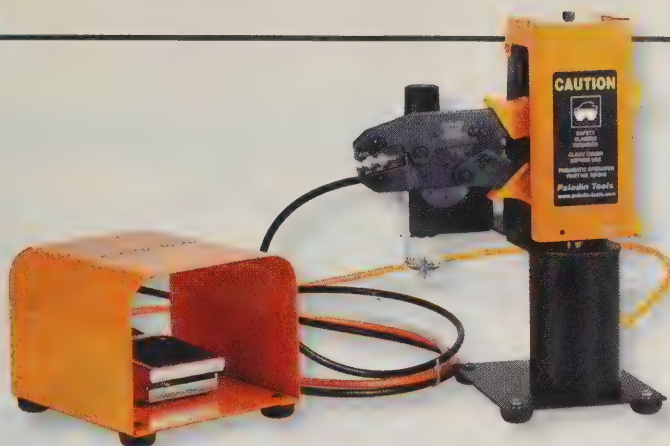
4-Way Indent Crimp Tools

- Lifetime factory warranty

Designed to crimp solid barrel contacts for D-sub RS-232 interface connectors. Four-way indent dies (per MS22520 specs) and built-in locator for accurate positioning of the pin and socket prior to the crimping action. Full cycle ratchet ensures a complete and perfect crimp every time. Cushioned grips. Compact 6-1/2" size.

Part No.	Description	AWG	Price
190-420	Solid Barrel Crimp Tool	20-26	\$95.30
191-347	Solid Barrel Crimp Tool	16-22	\$77.10





Paladin Tools

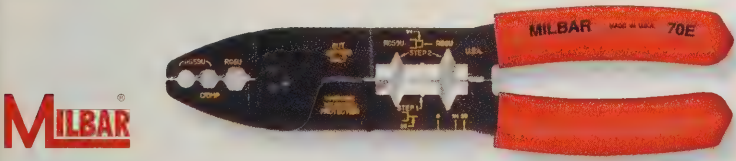
Pneumatic Hand Tool Operator

Eliminates Repetitive Hand and Wrist Motions

- Fits crimping tools from 5" to 12"
- Fully adjustable force
- Requires shop air (80 psi)

Convert your hand tools to bench tools with this great alternative to costly automatic crimping, stripping and cutting machines. The patent-pending tool holder in the applicator securely holds all tools in place, allowing the operator to use his hands freely. Comes complete with tool holder module, mounting base, air filter/pressure regulator with gauge, foot pedal and air tubing. 1 year warranty. Crimper not included.

Part No.	Model	Description	Price
415-678	901510	Pneumatic Hand Tool Operator	\$637.40



Coax Crimper, Cutter and Stripper

- Precision shaped for F-type coax connectors provide accurate connections
- Stripping Stations for RG6, RG58 and RG59 coax cable

Cut, strip and crimp RG6 and RG59 coax cable with just one tool. Long, curved cutting blade cuts cleanly and easily with less effort. Precision-ground stripping stations for inner insulation and outer jacket of cable. Precision-formed crimping dies ensure accurate connections. Easy 1-2-3 instructions on tool. 8-1/2" OAL.

Part No.	Description	Price
423-347	Coax Crimper, Cutter and Stripper	\$24.84

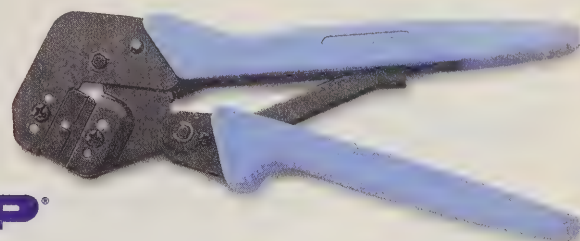


Paladin Tools

Wire Ferrule Crimp Tool

Designed to crimp both insulated and non-insulated wire ferrules. Made of durable steel construction for long life and has ergonomic handles for low-effort operation. A fixed steel die system eliminates the need for purchasing additional dies. Range of tool is 10-24 AWG.

Part No.	Description	Price
497-025	Wire Ferrule Crimp Tool	\$153.00



AMP

ProCrimper 2 Crimp Tool

- Ratcheting action for perfect crimps
- Interchangeable dies for versatility

This steel frame ratcheting action tool uses interchangeable die sets to crimp a wide variety of different connectors. (USA)

Part No.	Description	Price
162-780	ProCrimper 2 Frame without Dies	\$76.50
80-022	Die Set for RG-174 BNCs	\$50.00
80-023	Die Set for RG-58, 59, 62 BNCs	\$43.85
80-025	Die Set for Red, Blue, Yellow Insulated Terminals	\$43.85
80-027	Die Set for RS-232 Stamped, Open Barrel Pins, 20DF	\$148.00
80-028	Die Set for AMP Fiber ST Connectors	\$56.75
80-055	Die Set for V: 35 Pins	\$114.70

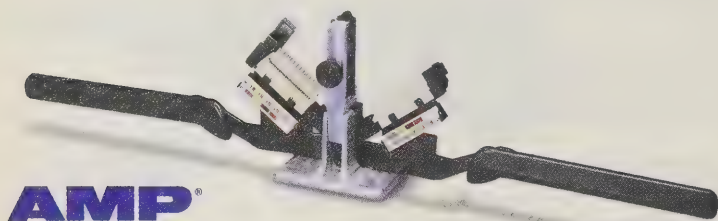


Modular Plug Presser

- Works on almost every type of modular plug
- Guarantees connections to FCC specs
- "Tool-less" die changes

A ratcheting presser that is rugged, versatile and easy-to-use. The patented mechanical design multiplies your pressing efforts by more than 20 times. A ratchet in the handle prevents premature release and a mechanical stop prevents overpressing. Interchangeable dies assure versatility, and snap in and out with a press of the thumb, with no fasteners to worry about. A positive detent securely locks the die in place. A stripper in the handle measures and strips the correct length of jacket every time. Kit includes Presser, 4, 6 & 8 contact dies, and 600 various plugs.

Part No.	Description	Price
471-004	Standard Pressing Kit	\$689.00
471-003	Presser w/Holster & #6 & #8 Dies	\$326.25
471-001	Presser w/Holster & #4 & #6 Dies	\$312.10
471-005	#4 Die for Handset Plugs	\$41.50
471-006	#6 Die for RJ-11 Plugs	\$43.75
471-002	#8 Die for RJ-45 Plugs	\$59.15
471-008	#A8 Die for AMP RJ-45 Plugs	\$58.00
471-016	Connector Presser only	\$228.00



AMP®

Telephone Butterfly Installation Tool

■ Fast installation of 25 pair (50-pin) connectors

This unique hand-operated tool performs volume installation of 25 pair (50-pin) telephone connectors. Requires **Lacing Fixture** to deliver 90° or 180° wire dress and **Comb Kit** to keep the wires properly separated. Includes carrying case and instructions.

Part No.	Description	Price
80-062	Butterfly Tool	\$865.00
80-072	Lacing Fixture	\$216.25
80-061	Comb Kit	\$23.45
411-639	T-Handle Insertion	\$9.20



Thomas & Betts

Comfort Crimp® Terminal Tool

Crimps RA, RB, RC Nylon and vinyl terminals, splices and disconnects. Color coded die nests include A (22-18AWG), B (16-14AWG), and C (12-10AWG) which include integrity dots that are embossed on the top and bottom of the terminal for easy visual verification of crimps. The toggle action of the tool increases mechanical gain which dramatically reduces handle force, and the stress on your hands. The Shure-Stake™ mechanism helps to ensure a complete crimp cycle before it releases the tool.

Part No.	Description	Price
462-200	Comfort Crimp® Terminal Tool	\$185.15



New

3-3/8" Ratcheting Cable Cutters

Cut telecom cables in tight spots

- Designed for cutting communications cable up to 3-3/8"
- 19" length to get into tight spots
- Two speed reversible ratchet
- Speed button for fast closing on smaller cables

Here's the only cutter you'll ever need to bite through big telecom cable. And it's small enough to get into tight spots that foil bigger cutters. A specially designed ratchet and huge cutting head give you an enormous mechanical advantage. To make those big cutting jobs even easier, the ratchet works at two speeds, in both forward and reverse. And to make it last, we've used precision-ground alloy tool steel, specially hardened. Measures 18.5 x 6.3 x 1.8" and weighs 3.5 lbs.

Part No.	Model	Description	Price
423-650	75250	Ratcheting Cable Cutters	\$230.80

AMP®

MTA Crimper

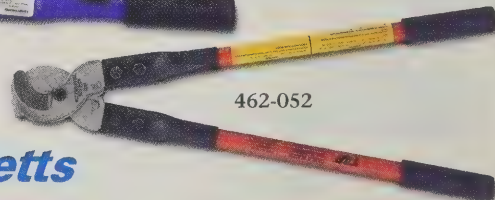
Interchangeable crimp heads for both sizes of AMP MTA connectors fit into comfortable pistol-grip handle. Tool automatically moves connector to next position after each pin is crimped speeding termination.



Part No.	Description	Price
162-778	MTA Crimper Tool Frame	\$62.40
80-334	MTA 100 Crimp Die	\$150.95
162-777	MTA 156 Crimp Die	\$150.95



462-051



462-052

Thomas & Betts

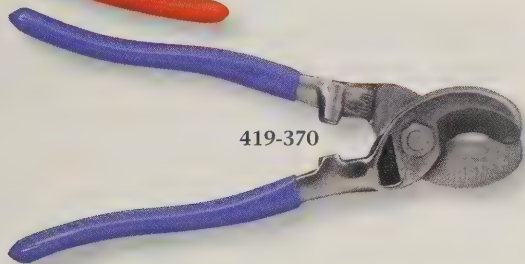
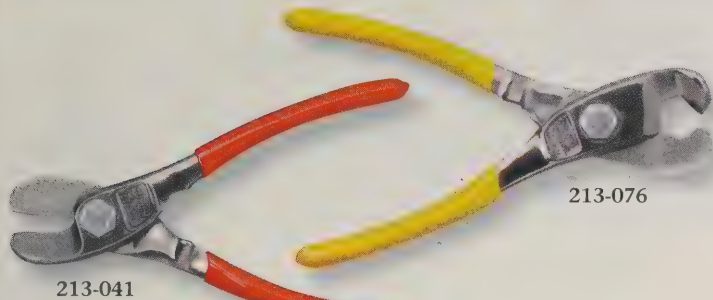
Ratcheting 750 MCM Cable Cutter & Cable Splicers

Only 16" long, the cable cutter has an advance stroke mechanism that greatly reduces handle force required to slice copper or aluminum cables up to 750 MCM. Short handles, 10" long, enables use in confined spaces. The Cable Splicer has fiberglass handles and cuts 500 MCM copper and aluminum.

Part No.	Description	Price
462-051	Racheting 750 MCM Cable Cutter	\$268.85
462-052	Cable Splicer- 500 MCM Copper/Aluminum	\$133.35



For an expanded selection of crimpers visit contacteast.com or jensentools.com



Cable Cutters

■ For copper and aluminum cables

These tools are designed specifically for the professional craftsman and are made in the USA from finely crafted tool steel. **213-041** will cut 50 pair-telco cable or 2/0 aluminum, and #2 copper stranded cable. **213-076** will provide distortion free cutting for coax cable up to 3/4" in diameter. **419-370** is a high leverage cutter for 100 pair telephone cable, 4/0 aluminum, and 2/0 copper.

Part No.	Description	Price
213-041	UP-B41 Clean Cutter	\$29.95
213-076	UP-B76 Banana Cutter	\$32.25
419-370	UP-B240 Shark	\$30.25



Cable Cutter

Made of heavy-duty forged steel to cut copper or aluminum to 2/0 capacity and 100pr. Communications cable. The cutting blades are heat treated, precision ground, with a curved shear action. Handles are high leverage with plastic coating and the tool has a rust resistant black oxide finish. 9-1/4".

Part No.	Description	Price
64-009	Cable Cutter	\$27.25

Paladin Tools

Ratcheting Cable Cutter

A compact ratchet tool that will easily cut stranded and flexible copper and aluminum cable up to 600MCM or a diameter of 1.77". It has hardened, precision cutting blades for long life and a precise ratchet mechanism for effortless operation. A built-in safety release in all cutting positions and locking mechanism for transport safety are also featured.

Part No.	Description	Price
497-045	Ratcheting Cable Cutter	\$270.50



Data T-Cutter

Designed to cut round communication cable, while maintaining the cable geometry for better cable performance. Precision ground and hardened steel for rugged use, long service. Comfort grip that increases handling ease. Cuts coaxial cable up to RG-9U, multi-pair cable up to .5" and solid and stranded wire up to 10 AWG. Includes a center conductor cutting hole to trim steel reinforced center conductors.



Part No.	Description	Price
407-636	Data T-Cutter	\$16.45



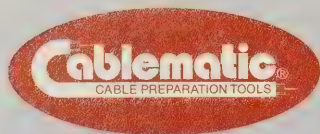
Electrician's Knife

A single tool that can be used to remove the jacket on most cables commonly installed by electricians. It's range includes 14-2 NM-B building wire to 750 MCM THHN building cable to 16-4 STO portable cord to 50 pair CM telephone cable. It contains two blades, a main blade for ringing cable and for slicing thicker jackets, and a side blade for peeling thinner jackets. The side blade is limited in depth so it will not damage the underlying wire insulation or nick bare wire.

Part No.	Description	Price
418-824	Electrician's Knife	\$21.25



For an expanded selection of cutters and strippers visit contacteast.com or jensentools.com



Wire & Cable Tools To Connect the World

Cablematic® offers quality cable preparation tools for CATV, telecommunications and wireless industries. Cablematic tools prepare trunk and distribution cables in addition to drop and messenger cables. The Cablematic product line includes coring and stripping tools, drop cable trimmers, compression and crimp tools for all kinds of drop and messenger cables and associated connectors.

CST Coax Coring and Stripping Tools

Cores and Strips in One Fast and Precise Operation

- Color coded cable guide sleeves for easy cable size identification

Manual or drill operation; CST tools have a standard "T" handle with a built-in 3/8" (9.5mm) drill adapter. Heat treated sheath cutting blade produces a smooth beveled edge and can be replaced without the expense of replacing the entire coring bit. Spiral-fluted, heat-treated steel coring bit. Rugged and durable all-metal construction. Strip stops available for exact stripping lengths of 0.50 to 2.00 inch (12.7 to 50.8mm).



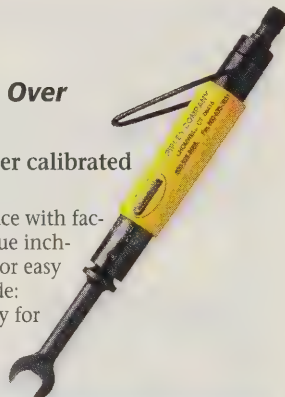
Part No.	Model	Description	Color	Price
424-956	CST 500	Coring and Stripping Tool	Red	\$62.30
424-957	CST 625	Coring and Stripping Tool	Blue	\$62.30
424-958	CST 750	Coring and Stripping Tool	Green	\$62.30

"F" Connector Torque Wrench

Prevent Damage to Equipment From Over or Under Tightening

- Audible "clicking" sound to indicate proper calibrated torque of "F" connectors

Proper connectorization at "F" connector interface with factory preset torque setting. The model number, torque inch-pounds and wrench size are stamped on each tool for easy identification. The TW-AH/IT model features include: angle head design, connector insertion tool on body for fast and easy "F" connector insertions and a handy removable belt loop. Tools are 6.5" long and sized at 7/16" for universal "F" connectors.



Part No.	Model	Description	Price
424-940	TW 207-AH/IT	Connector Torque Wrench	\$27.70
424-941	TW 307-AH/IT	Connector Torque Wrench	\$27.70



Canvas Tool Bag

Keeps Tools Organized, Clean, Dry and In One Location

Heavy duty no. 8 white canvas construction that stands up to field use. Vinyl coated waterproof interior stays dry in wet environments. Varied pocket sizes fit a wide range of tools (coring tools, cable cutters, wrenches, pliers, screwdrivers, etc.) Padded interior for extra tool protection. Approximate dimensions: 21" long x 12" high x 6" deep (533mm x 305mm x 152mm).

Part No.	Description	Price
424-951	Ripley Canvas Tool Bag	\$82.50

Pocket Toner Drop Cable Continuity Tester

Checks Circuit Integrity in New and/or Installed Cable

The pocket toner LED indicates DC shorts, splitters and other self-grounding devices in cable. A loud audio tone identifies the line carrying signal. The right angle male push-on connector lets you work in tight areas. Female push-on connector is used for speed toning. Tests up to 5,000 ft (1500m) of cable. Clips to shirt pocket for easy accessibility. 12V battery included.



Part No.	Description	Price
424-948	Pocket Toner Drop Cable Continuity Tester	\$20.60

Universal Compression Assembly Tool

Works With Most Compression Connectors

Configured with the new "universal" plunger tip, factory preset and calibrated to assemble the following connectors: Arris - Digicon-S™, Corning Cabelcon-CX3, Corning Gilbert - Ultraseal™, PCT - DRS, PPC - EX XL and Thomas & Betts - Snap-n-Seal®. Plunger tip can be changed out to allow assembly of other compression connectors (EZF®, EX, SPL, and TAC). Calibration/ gauge block and hex wrench supplied with tool.



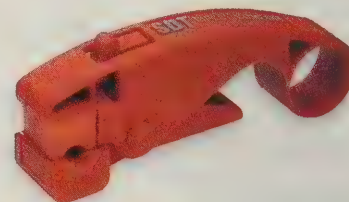
Part No.	Model	Description	Price
424-933	CAT-Universal	Compression Assembly Tool	\$68.30

Single Drop Trimmer

No Adjustments or Extra Tools Required

- One step cable preparation
- Cassette ejector provides quick blade cassette removal

Precisely expose the center conductor and remove the proper length of outer jacket to SCTE and Bellcore specifications. Tool body is constructed of lightweight impact resistant hi-visibility red polymer. Model SDT596-250 is for .250 (1/4) braid preparation. (Note: Tool is not intended for Plenum series cable construction). Superior quality tool, steel blade cassettes will perform 1500+ preparations under normal use. Tool supplied with RC596-250 cassette, assembled in tool and one spare cassette. Model SDT596-250 is for 59 and 6 series cable only.



Part No.	Model	Description	Price
424-928	SDT596-250	Single Drop Trimmer	\$18.30



Color-Keyed Hydraulic Compression Tools

Self-contained hydraulic tools install copper and aluminum Color-keyed connectors. Lugs and two-way connectors to 750 MCM, grid connectors through 250 MCM, 5/8" rod. C taps through #54775 and H taps through #63150. Develops 14 tons of force. Dies sold separately. Carrying case.

Part No.	Description	Price
462-014	TBM14 Compression Tool w/Insulated Head	\$1,970.00

Die Sets

Part No.	Model	Wire Size AWG	Color	Price
462-042	80R H-Tap	250-2	Purple	\$110.00
462-043	71R H-Tap	2-6	Brown	\$110.00
462-044	37R H-Tap	8-14	Green	\$110.00
462-015	21	8	Red	\$110.00
462-016	24	6	Blue	\$110.00
462-017	29	4	Gray	\$110.00
462-018	33	2	Brown	\$110.00
462-019	37	1	Green	\$110.00
462-020	42H	1/0	Pink	\$110.00
462-021	45	2/0	Black	\$110.00
462-022	50	3/0	Orange	\$110.00
462-023	54H	4/0	Purple	\$110.00
462-024	62	250 MCM	Yellow	\$110.00
462-025	66	300	White	\$110.00
462-026	71H	350	Red	\$110.00
462-027	76	400	Blue	\$110.00
462-028	80	—	—	\$110.00
462-029	87H	500	Brown	\$110.00
462-030	94H	600	Green	\$110.00
462-031	96	—	—	\$110.00
462-032	99H	535	Pink	\$110.00
462-033	106H	750	Black	\$110.00
462-034*	107H	800	Orange	\$110.00
462-035*	112H	—	Purple	\$110.00
462-036*	115H	900	Yellow	\$110.00

*Dies for TBM15i only.

14 Ton Battery Powered Compression Tool

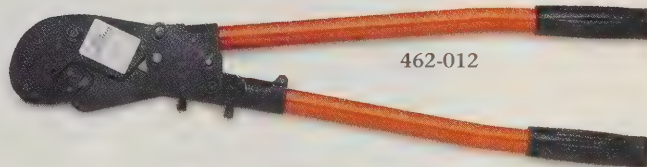
This is a self-contained battery operated 14 ton compression tool. Its 1.65" jaw accepts mid-span copper and aluminum splices and cables up to 750 MCM. Press the trigger and the hydraulic ram applies 14 tons of force, so you get the same crimp every time. Virtually eliminate operator fatigue and strain from applying lugs and splices.

The tool head swivels 360° to get into cramped areas. Whether you're in a building, up a pole or down in a vault, the simple operation will make fast work of your splicing. The tool accepts all Thomas and Betts shell type dies and comes complete with carrying strap, carrying case, two battery packs, and 15 minute charger.

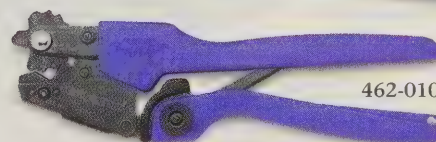
Part No.	Description	Price
462-614	TBM14BSCR 14 Ton Compression Tool	\$5,727.75



462-011



462-012



462-010

Color-Keyed Compression Tools with Dies

462-010 installs copper lugs and splices from #8 to #2 C taps, 54705 to 54725. Aluminum lugs and splices from #10 to #6. Five dies, Shure-Stake system.

462-011 installs on copper #8 to 250 MCM lugs, splices and taps and on aluminum from #10 to 4/0. Includes dies.

462-012 installs copper lugs and splices from #8 to 500 MCM, aluminum from #10 to 350 MCM. Tool includes dies and case.

Part No.	Description	Price
462-010	TBM25S Compression Tool, Blue	\$212.00
462-011	TBM5S Compression Tool, Red	\$542.65
462-012	TBM8S Compression Tool, Red	\$1,180.00



462-001



462-002

Color-Keyed Compression Tools

Compression tools install 63105 through 63140 H taps, #8 through 500 MCM copper and #10 through 350 MCM aluminum lugs, splices and taps. Comes in carrying case. Dies sold separately.

Part No.	Description	Length	Weight	Price
462-001	TBM6S Compression Tool, Red	26"	21 lbs.	\$594.00
462-002	TBM60RS Compression Tool, Blue	20"	6 lbs.	\$639.00
462-003	Die Kit (Includes all listed plus 13478)	—	—	\$555.90
462-004	Upper Die 13472	—	—	\$86.70
462-005	Upper Die 13473	—	—	\$86.70
462-006	Upper Die 13474	—	—	\$86.70
462-007	Upper Die 13475	—	—	\$88.45
462-008	Lower Die 13476	—	—	\$88.45
462-009	Lower Die 13477	—	—	\$86.70



JENSEN®
Lifetime Guarantee

Crimp Kits

- Ratchet cycle insures perfect crimps
- Zipper case holds tool and dies

Telco Kit contains crimp tool frame, one piece die for RJ-11 (4/6 position) and RJ-45 (8 position). Other dies available.

Coax Kit contains crimp tool frame and die set for RG-58/59/62, PVC and plenum. Other dies available.

Part No.	Description	Price
23-231	Crimp Kit for Telco*	\$101.00
23-233	Crimp Kit for Coax*	\$101.00

*Lifetime Guarantee on Frame only.



1-301

JENSEN®
Lifetime Guarantee

Termination Kits

- Special tool selections
- Cordura® Plus cases

Overall case size is 11 x 6-1/2 x 3" with two outside pockets, each 8-1/2 x 6-1/2 x 2".

Part No.	Description	Price
1-302	RJ-11/RJ-45 Modular Termination Kit*	\$120.00
1-301	Coaxial Termination Kit*	\$135.00
54-462	Cordura Plus Case only	\$44.50

*Lifetime Guarantee on Tools and Frame only.

1-302 Tools in boldface italic backed by Jensen's Lifetime Guarantee

Crimper, RJ-11/45	Screwdriver, slotted pocketclip, 3/32"
Stripper/cutter	Parts box, 5-compartment
Scissors, electrician's, strip-jaw	Tool case, Cordura Plus
Screwdriver, Phillips, pocketclip, #0	

1-301 Tools in boldface italic backed by Jensen's Lifetime Guarantee

Crimp tool frame	Parts box, 5-compartment
Crimp tool die, RG-58/59/62	Stripper/cutter
Coax stripper, 3-step, RG-58/59/62/6	Tool case, Cordura Plus



IDEAL®

10BASE-T Tool Kit

- Complete and easy-to-carry
- Fast, accurate crimps

Kit features RJ-45 crimper, twisted pair cable stripper, cable cutter, 100 RJ-45 plugs, and round stranded wire.

Part No.	Description	Price
191-747	33-652 10BASE-T Tool Kit	\$214.25



AMP®
Professional UTP Crimping Tool Kit

- Terminates 4, 6 and 8 position AMP modular plugs

For both solid and stranded, flat or round UTP cable. Kit includes 2 dies, crimp tool, replacement cut/strip blades in a molded case.

Part No.	Description	Price
402-492	Professional UTP Crimping Tool Kit	\$216.85



Integrated Cabling Tool Kits

Whatever type of cables you repair or terminate, we have the right tool kit for you. Carefully selected, quality tools from Ideal ensure the job is done right the first time. Each tool carries a lifetime warranty (excluding stripper and punch-down blades, and testers) so you know they're rugged. Each kit is housed in a case with die-cut foam.



414-206 — Tone generator, tone tracer, coax cutter, cutter/stripper for flat satin, punch-down tool with 110 blade, crimper with RJ-11 and RJ-45 dies, coax and twisted pair stripper.



405-281 — Crimper with RG-58/59/62, RG-8/11 diesets, crimper with RJ-45, RJ-45 AMP and RJ-11 diesets, coax stripper, RG-8/11 stripper, cutter/stripper for flat satin, coax and twisted pair stripper, center conductor cutter, coax cutter.



405-279 — Crimper with RG-8/11, AMP RG-58 round, RG-58/59/62, RJ-11, RJ-45, RJ-45 AMP, MMJ diesets, coax stripper, RG-8/11 stripper, coax cutter, cutter/stripper for flat satin, punchdown tool with 66 and 110 blades, coax and twisted pair stripper.

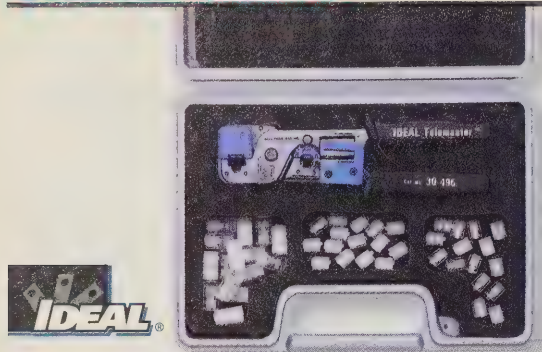


414-207 — Crimper with RG-58/59/62, RJ-45 and RJ-11 diesets, coax stripper, center conductor cutter, coax cutter, tone generator, tone tracer, wiring verifier, punch-down tool with 66 and 110 blades, coax and twisted pair cable tester.



182-509 — Coax cutter, center conductor trimmer, RG-58/59 crimper, coax stripper.

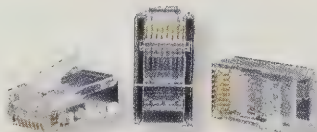
Part No.	Description	Price
405-281	Coax and Twisted Pair Termination Kit	\$362.65
414-207	All-in-One Termination Kit	\$494.40
182-509	Basic Coax Termination Kit	\$156.05
405-279	Coax and Twisted Pair Termination Kit	\$449.00
414-206	Voice and Data Termination Kit	\$324.95



RJ11 & RJ45 Termination Kit

- Combination RJ11/45 crimp tool with cut and strip blades
- Fifteen each of four and six position RJ11 modular plugs
- Fifteen RJ45 modular plugs
- Blow molded ABS carrying case

Part No.	Description	Price
125-926	RJ45 & RJ11 Kit	\$65.50



Modular Connectors

- Solid or stranded connectors

For flat/oval, 24-28 AWG wire. Packages of 25.

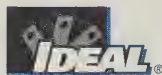
Part No.	Description	Price
129-454	RJ12, 6P6C Modular 6-Position 25 Pkg.	\$7.15
410-946	RJ11 6-Position 4-Conductor 100 Pkg.	\$15.40
406-375	RJ45 8 solid	\$13.35
406-374	RJ45 8 solid 100 Pkg.	\$31.80
406-376	RJ45 8 stranded	\$13.35
406-373	RJ45 8 stranded 100 Pkg.	\$30.85



Twisted Pair Termination Kit

- Combination RJ11/45 crimp tool with cut and strip blades
- UTP/STP stripper
- Fifty RJ45 modular plugs
- Blow molded ABS carrying case

Part No.	Description	Price
125-928	Twisted Pair Kit	\$95.45



Deluxe Cable Service Kit

Most Popular Tools for Terminating and Tracing Voice and Data Connections



The kit includes a punchmaster punch down tool with 110 and 66 blades, electricians scissors with stripping notches, UTP/STP stripper, 5-in-1 screwdriver, probe pic and spudger, tone generator, amplifier probe, journeyman's electricians tote, telemaster tool, link master tester and remote.

Part No.	Description	Price
423-374	Deluxe Cable Service Kit	\$389.95



New

Technician's Service Kit

The kit includes: Punchmaster™ II punch down tool with 110 blade and 66 blade, electricians scissors w/ stripping notch, UTP/STP stripper, electricians cabinet tip screwdriver and a probe pic and spudger. Comes complete with nylon case with belt clip.

Part No.	Description	Price
425-194	Technician's Service Kit	\$119.95



New

Pro Residential Service Kit

The kit includes: Journeyman's pouch, Punchmaster™, 110/66 blade, UTP stripper, 5-in-1 screwdriver, probe pic, Lever™snips, Data T@Cutter, coax stripper, F-connector tool, tone generator, Amplifier, CATV Crimpmaster™ and RJ-45 die set.

Part No.	Description	Price
425-521	Pro Residential Service Kit	\$379.95





Data/Voice PRO Kit

A complete data and voice installation kit providing everything for cutting, stripping, crimping, terminating and tracing data and telephone (voice) cables and modular plug cable systems. Includes CrimpALL tool frame, RJ45 & RJ11 dies, UTP/STP round cable stripper/cutter, SurePunch™ with 110 & 66 blades, LAN & Telecom Cable Testing Kit and round cable cutter.



Part No.	Description	Price
414-483	Data/Voice Pro Kit	\$280.00

DataReady Kit

This kit provides everything needed (excluding cable) for a CAT5 installation. Included is an all-in-one telephone crimp tool, impact punchdown tool with 110 & 66 blades, cutter/stripper, Patch-Check® cable tester and 20 Category 5 RJ45 standard plugs, all included in a case.



Part No.	Description	Price
414-357	DataReady Kit	\$176.00

BroadcastReady™ Kit

Includes professional tools for cutting, stripping, crimping and testing coaxial cable connections for HDTV, video and RF communications. Frame includes a die for RG58/59/62AU and four additional dies that crimp from RG174 to RG6, and NT725 to Belden 8281. Works with connectors from Amphenol, ADC, Kings, AIM/Cambridge, AMP and others. Three stripping cassettes are included to handle N-type, BNC/TNC and HDTV connectors. A professional cable cutter with non-deforming cutting blades and a Coax-Check® remote cable tester with BNC adapters is also included. Kit is protected by a padded, zipper case.



Part No.	Description	Price
497-030	BroadcastReady™ Kit	\$305.95

CoaxReady Deluxe Kit

Perfect for Cable TV, HDTV and other video or Ethernet installations in a convenient zipper kit. Includes crimp tool frame, RG58/59/62 die set, mini-coax RG58 Plenum, mini-59, RG174 die set, HDTV BNC/TNC/CATV "F" die set, cable cutter, coax cable stripper, and a Coax-Check® remote tester.



Part No.	Description	Price
497-041	CoaxReady Deluxe Kit	\$173.35

Premise Service Kit

A complete data, voice and coax installation kit providing everything for cutting, stripping, crimping, terminating, testing, and tracing data and telephone (voice) cables, modular plug cable systems, and RG58/59/62 coaxial cable systems. Includes CrimpALL tool frame, RJ45 & RJ11 die sets, RG58/59/62AU die set, round cable cutter/stripper, LC CST coax stripper, SurePunch punchdown tool with 110 and 66 blades, LAN & Telecom Cable Testing Kit, Data SureStrip and 8 way modular adapter.



Part No.	Description	Price
497-043	Premise Service Kit	\$403.85



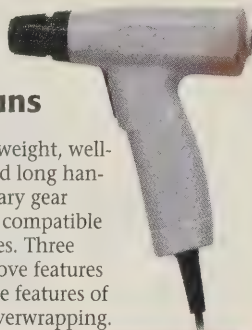
For an expanded selection of telecom equipment visit contacteast.com or jensentools.com



PTX Series Electric Wire Wrap Guns

These ergonomically designed tools feature a lightweight, well-balanced body with dual-finger short-throw trigger and long handle to reduce operator fatigue. The high torque planetary gear drive can wrap and unwrap 18 to 30 AWG wire and is compatible with the full range of industry standard bits and sleeves. Three models to choose from. Model PTX-1 has all of the above features and operates on 115VAC. Model PTX-1BF has all of the features of Model PTX-1, plus a backforce feature that prevents overwrapping.

Part No.	Model	Description	Price
416-675	PTX-1	Electric Wrap/Unwrap Gun	\$225.75
416-676	PTX-1BF	Electric Wrap/Unwrap Gun with Backforce	\$233.45



PTX Series Battery Wire Wrap Guns

Compatible With the Full Range of Industry Standard Bits and Sleeves

- Wraps and unwraps 18 to 30 AWG wire
- Rated for 2,500 cycles/day
- Dual finger short-throw trigger
- Includes 2 3.6V (NiMH battery)
- Ergonomic design minimizes repetitive stress
- Rugged construction for field use

Two models to choose from. Model PTX-KIT1 has all of the features above and includes everything shown except the DFB-224 bit and sleeve set. Model PTX-KIT1DH has all of the features of Model PTX-KIT1, plus the DFB-224 bit and sleeve set. 3700 RPM. Kit Contains: PTX battery wrap/unwrap tool, PTX-BC1 charger, PTX-B 2 batteries, DFB-224 (dual function wrapping/unwrapping, bit/sleeve set, 22-24 AWG PTX-KIT1DH only) and H-1000 Cordura tool pouch.

Part No.	Model	Description	Price
416-677	PTX-KIT1	Battery Powered Wrap/Unwrap Gun Kit	\$306.90
425-108	PTX-KIT1DH	Battery Powered Wrap/Unwrap Gun Kit	\$541.70
191-541	DFB-224	Wrap/Unwrap Bit & Sleeve 22-24AWG	\$129.20



Insulated Wire Wrap Kit

- Insulated aluminum wrapping tool
- Newly designed strip tool
- Leather holster

Everything needed to cut, strip and wrap 22 to 24awg wire. Includes insulated aluminum wire wrap tool, cut and strip tool, 22-24 bit and sleeve and 22-24 wrap/unwrap hand tool all in a leather holster with belt loop. (USA)

Part No.	Description	AWG	Price
759-011	Insulated Wire Wrap Kit	22-24	\$244.80
419-397	Insulated Aluminum Wrapping Tool	-	\$107.10



Electric Wire Wrapping Tool

- Fully insulated
- Unique indexing mechanism

Designed for production applications where wire sizes from 18-32 AWG will be used. A lightweight Lexan housing and specially designed handle help reduce repetitive motion injuries. 20' power cord provides optimum usage range from the outlet. 115VAC.

Part No.	Description	Range	Price
316-100	Electric Wire Wrapping Tool	18-32 AWG	\$230.00



Wire-Wrap

Electric Wire Wrapping Tools

Standard Model is designed for prototyping and moderate production applications. Adjustable index. Two-finger trigger control reduces operator fatigue.

Heavy-Duty Model offers a more powerful motor for steady performance, and includes backforce to reduce overwraps.

Part No.	Description	Price
404-519	Standard Electric Wire Wrap Tool	\$217.40
401-581	Heavy-Duty Electric Wire Wrap Tool	\$338.05



Manual Wire Wrapping Tool

- Insulated sleeves

Hand operated Lexan tool uses any bit and sleeve. Recommended telecom approved insulated bit and sleeves listed below.

Part No.	Description	AWG	Price
759-031	Manual Wire Wrap Tool	-	\$75.00
759-032	Wire Wrap Bit	22-24	\$29.00
759-034	Insulated Sleeve for 759-032	-	\$19.40
759-033	Wire Wrap Bit	26	\$34.70
759-035	Insulated Sleeve for 759-033	-	\$19.40

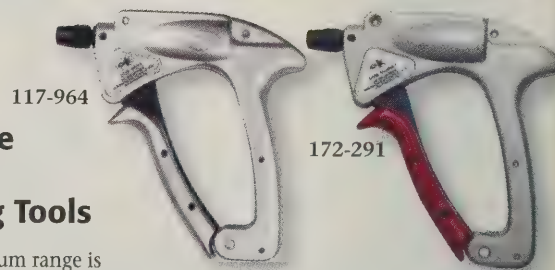


Manual Wire Wrapping/Unwrapping Tools

117-964: Optimum range is 22-32 AWG. For production line and field service use in electronic and telecommunications industries. Bits and sleeves sold separately.

172-291: Lightweight aluminum tool provides fast, smooth unwrapping action. Use only with bit and sleeve set 191-740, listed below.

Part No.	Description	AWG	Price
117-964	Aluminum Manual Wire Wrapping Tool	22-32	\$142.05
172-291	Manual Wire Unwrapping Tool	-	\$166.90
191-740	Unwrap Bit/Sleeve	22-26	\$59.25

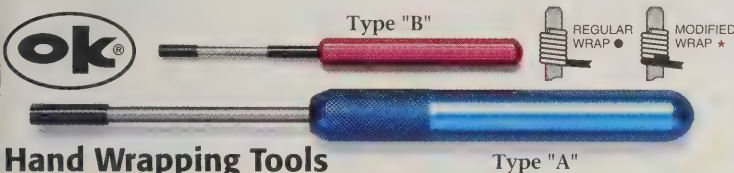




Hand-Unwrapping Tool

These precision tools are used to remove wire-wrapped connections easily from 18 through 32 AWG wire, Type "A" tools are 5" long. Type "D" tools are 5-1/2" long. Type "E" tools are 5-3/4" long.

Part No.	Model	Type	Wire Size (AWG)	Type of Unwrap	Terminal Diam.	Price
118-057	UW 1	A	20-26	Left Hand	0.070	\$26.90
118-060	UW 2	E	20-26	Left Hand & Right Hand	0.070	\$30.15
118-062	UW 4	D	20-26	Left Hand	0.070	\$34.60
118-066	UWD93-120	E	24-32 20-26	Left Hand	0.038 0.070	\$26.90
118-056	UW093R	A	24-32	Left Hand	0.038	\$26.90
118-067	UWD93-93	E	24-32	Left Hand & Right Hand	0.038	\$26.90



Hand Wrapping Tools

Part No.	Type	Wire Size AWG	Term Diam	Hole Depth	Outside Diam.	Price
759-053	A	22-24	.075	.807	.218	\$54.05
117-978	A	22-24	.075	.807	.218	\$64.60
191-535	A	22-24	.086	1.000	.218	\$64.60
117-985	B	★30	.036	.750	.125	\$66.90

★ Produces modified wrap

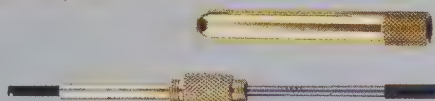


Wire Cut & Strip Tool

Simply place wire in stripping slot, squeeze the tool and pull. You now have the wire cut and stripped to the proper length. Comes with cushion grips and interchangeable blades, 22-24 AWG and 24-26 AWG, and a hard plastic case.

Part No.	Description	Price
759-036	Wire Cut & Strip Tool	\$38.00
759-058	Replacement Blade 22-24 AWG	\$8.65
759-059	Replacement Blade 24-26 AWG	\$8.65

Not for Mylene or Teflon insulation.



Part No.	Wrapping Side							Unwrapping Side		Price
	Wire Type Reg.	Wire Type Mod.	Wire Size AWG	Max Insul Diam.	Term Diam.	Hole Depth	Outside Diam.	Wire Size AWG	Term Diam.	
117-968	x		22-24		0.075	0.807	0.218	20-26	0.070	\$78.30
117-972	x		26		0.075	1.000	0.218	20-26	0.070	\$78.30
117-973		x	26	0.031	0.040	0.750	0.125	24-32	0.038	\$90.15
117-974		x	28-29	0.036	0.040	0.750	0.156	24-32	0.038	\$90.15
117-975		x	30	0.027	0.036	0.750	0.125	24-32	0.038	\$90.15



Wire Wrap Tool Bits and Sleeves

Each bit should be purchased with a sleeve to assure proper tolerances and operation.



Bits		Wire Size		Sleeves	
Part No.	Price	(AWG)	Wrap	Part No.	Price
191-559	\$70.00	18	REG	191-497	\$48.45
180-663	\$48.45	20	REG	118-023	\$19.85
191-561	\$48.45	20	MOD	191-551	\$48.45
117-998	\$19.85	22	REG	118-023	\$19.85
118-069	\$48.45	22	MOD	118-023	\$19.85
759-032	\$29.00	22-24	REG	759-034	\$19.40
191-441	\$61.10	22-24	MOD	118-023	\$19.85
118-000	\$45.80	24	REG	118-023	\$19.85
424-976	\$44.75	24	MOD	118-023	\$19.85
759-033	\$34.70	26	REG	759-035	\$19.40
118-073	\$48.45	26	MOD	118-023	\$19.85
118-076	\$48.45	28	REG	759-061	\$58.95
118-076	\$48.45	28	MOD	759-061	\$58.95
759-060	\$37.70	30-32	MOD	759-061	\$58.95



3" Bit & Sleeve Sets with Insulated Color Coded Sleeves

Enjoy the convenience of pre-assembled sets with insulated color-coded sleeves for easy identification of wire sizes based on color.

Part No.	Wire Size AWG	Wrap Type	Color	Price
424-970	22-24	REG	Blue	\$47.80
424-971	22	REG	Blue	\$47.80
424-972	24	REG	Yellow	\$47.80
424-973	26	REG	Green	\$54.25
424-974	26	MOD	Red	\$55.50
424-975	30	MOD	White	\$59.50



Wire Cut-&-Strip Tools

Place wires in stripping slot with ends extending beyond cutter blades. Press tool and pull. Wire is cut and stripped to proper wire wrapping" length.

Part No.	Price	AWG	Length	Repl. Blade	Price
118-050	\$45.00	22-24	1-5/16" to 1-9/16"	191-565	\$7.55
118-052	\$48.45	26	1-5/16" to 1-11/16"	118-019	\$7.55
118-054	\$48.45	28	7/8" to 1-1/8"	190-220	\$7.55
118-055	\$48.45	30	7/8" to 1-1/8"	118-021	\$7.55

Not for Mylene or Teflon insulation.

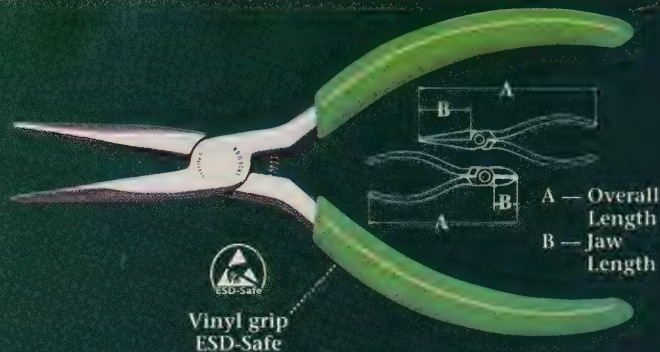
Combo Hand-Wrapping Unwrapping Tool

One tool does the job of two. Easy to use - screw-on cap fits both ends of tool, revealing either wrap or unwrap bits. All tools are 6-3/4" long.

Xcelite Electronic Pliers

Now with Soft, ESD-Safe, Cushion Grips

These Xcelite tools are drop-forged and machined to close tolerances. All tools come with return coil spring in head and soft vinyl grip handles. Cutters have either flush or semi-flush cutting edges. A flush cutter leaves a clean, square cut on the lead wire while a semi-flush cutter leaves a slight taper on the lead wire. Semi-flush cutters give longer cutting life than flush cutters of comparable size and shape.



Chain Nose Pliers

L4 series and LN54-2 have a tip diameter of 3/64". LN54 series have a tip diameter of 5/64".

Part No.	Model	A	B	Price
114-761	L4G	4"	13/16"	\$15.60
114-780	LN54G	5"	1-3/16"	\$15.45

Serrated Jaws

Part No.	Model	A	B	Price
114-757	L4	4"	13/16"	\$14.15
114-774	LN54	5"	1-3/16"	\$15.35
114-776	LN54-2	5"	1-3/16"	\$14.40

Long Chain Nose Pliers

Serrated Jaws.

Part No.	Model	A	B	Price
114-781	LN55	5-1/2"	1-11/16"	\$15.70
114-521	10336FSC	6-1/2"	1-7/8"	\$17.15

Long Needle Nose Pliers

Part No.	Model	A	B	Price
401-214	NN7776G	6-1/4"	2-5/16"	\$18.80

Serrated Jaw

Model LN774-5-1/2 has alignment pin for jaws.

Part No.	Model	A	B	Price
150-026	NN777-6	6-1/4"	2-5/16"	\$17.15
402-486	LN775-5-1/2	5-3/4"	1-3/4"	\$18.30
114-656	7776SC	6-1/2"	2-1/16"	\$18.15
403-417	LN774-5-1/2	5-1/2"	1-3/4"	\$18.50

Slim Needle Nose Pliers

Model NN55G has pin for jaw alignment.

Part No.	Model	A	B	Price
114-795	NN54G	5"	1-3/16"	\$18.95
114-798	NN55G	5-1/2"	1-11/16"	\$18.95

Slim Needle Nose Pliers

Part No.	Model	A	B	Price
114-791	NN54	5"	1-3/16"	\$18.95
114-793	NN54-2	5"	1-11/64"	\$18.95
114-796	NN55	5-1/2"	1-11/16"	\$19.00

Long Chain Nose Pliers with Side Cutter

Serrated jaws. Model SN54 has a cutting blade length of 1/4". Model SN55 has a cutting blade length of 3/8". Cut soft copper wire to .025" and hard wire to .080".

Part No.	Model	A	B	Price
114-811	SN54	5"	13/16"	\$17.20
114-812	SN55	5-1/2"	1-11/16"	\$17.20

Curved Chain Nose Pliers

Jaws bent at 60° angle for gripping, twisting and looping fine wire in confined areas. Model CN25-5 has serrated jaws. Model CN25-5G has smooth jaws and beveled edges.

Part No.	Model	A	B	Price
403-413	CN25-5	5"	1-1/8"	\$18.90
403-414	CN25-5G	5"	1-1/8"	\$20.85

Curved Long Nosed Pliers

Smooth jaws reach into confined areas. Model CN54G nose bent 60°. Model CN55G nose bent 45°.

Part No.	Model	A	B	Price
114-688	CN54G	4-1/2"	3/4"	\$17.20
114-690	CN55G	4-3/32"	7/16"	\$20.40

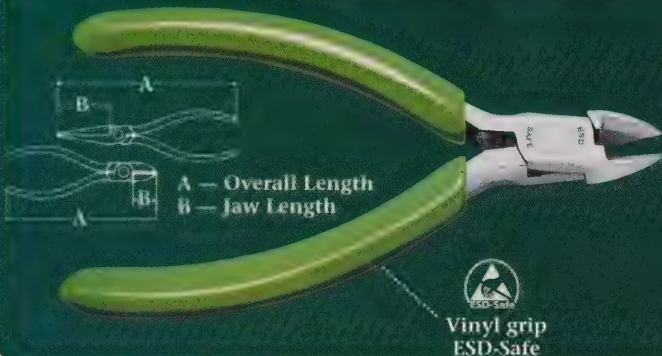
Duck Bill Pliers

Smooth jaws.

Part No.	Model	A	B	Price
114-719	DN54G	5"	1-3/16"	\$13.95



For an expanded selection of pliers and cutters visit contacteast.com or jensentools.com



Xcelite Electronic Cutters

Now with Soft, ESD-Safe, Cushion Grips

These Xcelite tools are drop-forged and machined to close tolerances. All tools come with return coil spring in head and soft vinyl grip handles. Cutters have either flush or semi-flush cutting edges. A flush cutter leaves a clean, square cut on the lead wire while a semi-flush cutter leaves a slight taper on the lead wire. Semi-flush cutters give longer cutting life than flush cutters of comparable size and shape.



Round Nose Cutter with Relieved Head

Flush cutting edges. Tapered head is ground down for working in confined areas. Cuts soft copper wire to .025".

Part No.	Model	A	B	Price
115-076	MS54-3J	4-1/4"	15/32"	\$15.90



Diagonal Cutter with Tapered Head

Flush cutting edges. Features slim-line tapered head. Cuts soft copper wire to .025".

Part No.	Model	A	B	Price
115-080	MS54-5J	4"	13/32"	\$16.50



Round Nose Cutters

Part No.	Model	A	B	Price
115-074	MS54	4"	13/32"	\$13.95
115-087	MS54J	4"	13/32"	\$16.95



Round Nose Cutters Flush cut

Cuts soft copper wire to .025".

Part No.	Model	A	B	Price
115-081	MS54-9J	4"	15/32"	\$15.40



End Cutter

Flush cutting edges. Cuts component leads in vertical or horizontal position in densely populated PC boards. Cutting blade is 1/8" wide. Cuts soft copper wire to .025".

Part No.	Model	A	B	Price
190-142	EC54-J	4-1/2"	7/16"	\$18.95



Angled Flush Cutter

Flush cutting edges have a tip angle of 29° and a cutting blade length of 7/16". Cuts soft copper wire to .025".

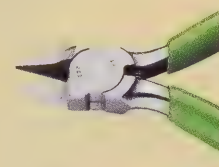
Part No.	Model	A	B	Price
66-410	GA54J	4"	7/16"	\$24.95



Heavy Duty Round Nose Cutter

Semi-flush cutting edges. Cuts soft copper wire to .063".

Part No.	Model	A	B	Price
115-101	S54S	4-1/2"	5/8"	\$16.00



Diagonal Cutters with Relieved Head

Flush cutting edges. Tapered head is ground down for work in confined areas. Cuts soft copper wire to .025".

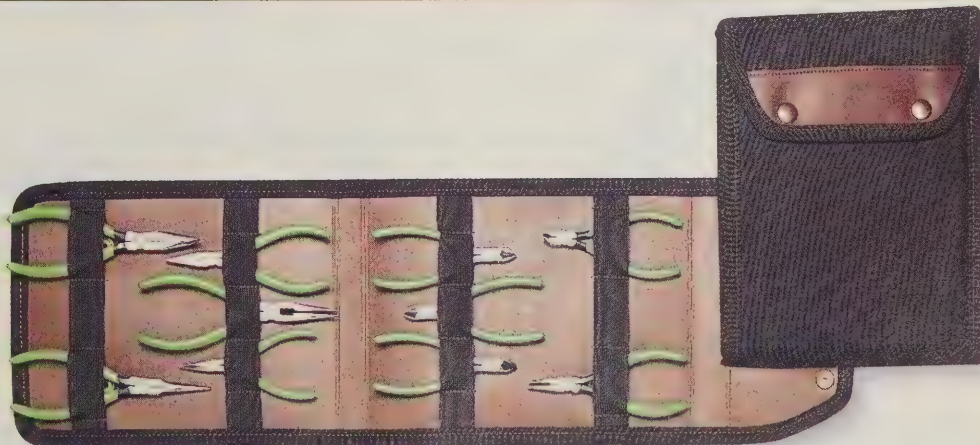
Part No.	Model	A	B	Price
150-027	S42-4JS	4"	5/8"	\$20.40
403-415	S141-5JS	5"	25/32"	\$18.70

Xcelite

10-Piece Electronic Pliers Kit

A comprehensive assortment of precision tools organized and protected in a durable Cordura® case. Kit contains five cutters and five pliers. Cutters include Models MS54J, MS54-9J, MS54-3J, GA54J and EC54J. Pliers include Models L4, SN55, NN55G, CN55G, DN54G. Brown case has heavy-duty, wide elastic straps and a snap cover to securely hold pliers.

Part No.	Model	Description	Price
117-736	DKIT10	10-Piece Kit	\$180.00





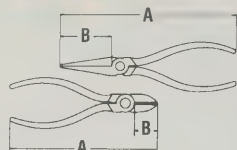
Xcelite



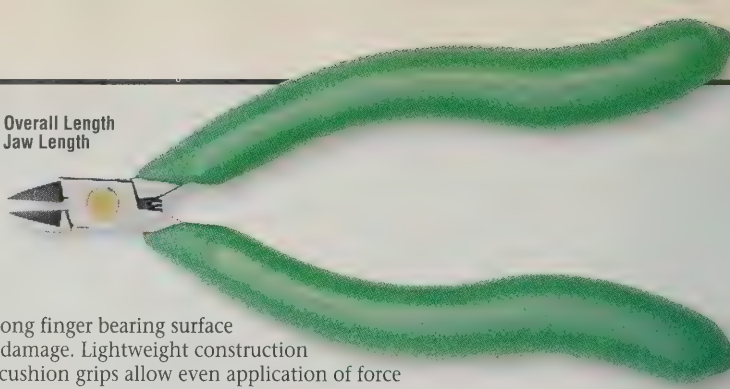
Accu-Lite™ Ergonomic Hand Tools

Ergonomic versions of industry standard tools

Accu-lite™ handles meet the optimum criteria for ergonomic hand tools. Long finger bearing surface eliminates pressure on sides of fingers preventing skin, nerve and blood vessel damage. Lightweight construction helps reduce operator fatigue. Extended handle length and non-slip soft foam cushion grips allow even application of force from all four fingers. This reduces both finger and hand fatigue. Anti-static grip material absorbs mechanical shock and handle contours are adaptable for either right or left-hand use. Key to tool dimensions "A" and "B" is shown below.



A — Overall Length
B — Jaw Length



Chain Nose Plier

Has smooth jaws.

Part No.	Model	A	B	Price
114-727	ELN54G	6-1/2"	1-1/4"	\$27.50

(Head style LN54)

Chain Nose Plier

Serrated jaws.

Part No.	Model	A	B	Price
114-726	ELN54	6-1/2"	1-1/4"	\$25.75

(Head style LN54)

Diagonal Cutters with Relieved Head

Full-flush cutting edges. Cuts from 36 to 20 AWG soft copper wire and 14 to 20 AWG hard wire (90,000 PSI). Relieved head for working in confined areas.

Part No.	Model	A	B	Price
190-150	EMS54-3J	5-7/8"	17/32"	\$25.75

(Head style MS54-3)

Oval Head Cutter

Semi-flush cutting edges. For 36 to 20 AWG soft copper wire.

Part No.	Model	A	B	Price
190-156	EMS54	5-3/4"	15/32"	\$26.60

(Head style MS54)

Needle Nose Plier

Has serrated jaws and 5/64" tip.

Part No.	Model	A	B	Price
114-728	ENN54	6-1/2"	1-15/64"	\$26.15

(Head style NN54)

Round Nose Cutter

Full-flush cutting edges. For 36 to 20 AWG soft copper wire.

Part No.	Model	A	B	Price
190-154	EMS54-9J	5-7/8"	17/32"	\$25.95

(Head style MS54-9)

Diagonal Cutter with Tapered Head

Tapered head has full-flush cutting edges. Cuts from 30 to 20 AWG soft copper wire.

Part No.	Model	A	B	Price
190-152	EMS54-5J	5-1/2"	1/2"	\$23.00

(Head style MS54-5)

Angled Tip Cutter

Full-flush cutting edges. For 36 to 20 AWG soft copper wire. Tip angle of 29°.

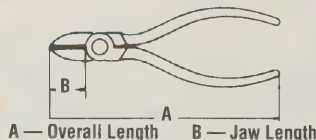
Part No.	Model	A	B	Price
190-144	EGA54J	5-3/4"	7/16"	\$33.40

(Head style GA54)

Erem

"N" Series Cutters

Swiss cutters are made from the highest grade steel using an advanced forging process. All parts are precision machined to a tolerance of .00039" resulting in total uniformity and consistency. A built-in, internal spring provides uniform, constant tension. The inter-lock screw joint system allows for a smooth, wobble free operation with no blade overlap. ESD-Safe grips. Available in semi-flush or full-flush cutting edges.



Full-Flush Diagonal Cutters

Cuts soft copper wire 20-32 AWG.

Part No.	Model	A	B	Price
406-108	622N	4"	.413"	\$53.20
406-107	522N	5"	.472"	\$56.70

Semi-Flush Diagonal Cutters

Cuts soft copper wire 16-32 AWG.

Part No.	Model	A	B	Price
406-109	612N	4"	.413"	\$58.50
406-110	512N	5"	.472"	\$54.20

Tapered Head Full-Flush Cutter

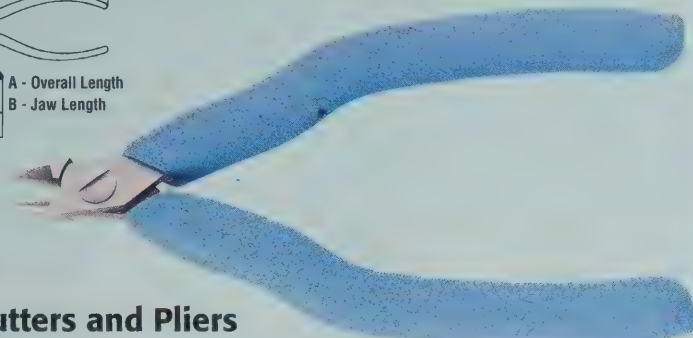
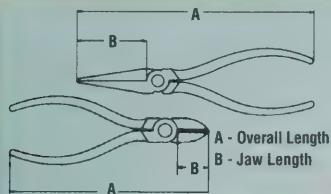
Cuts soft copper wire 22-30 AWG.

Part No.	Model	A	B	Price
418-602	622NA	4-1/4"	3/8"	\$53.20

Tapered and Relieved Head Full-Flush Cutter

Cuts soft copper wire 22-30 AWG.

Part No.	Model	A	B	Price
418-603	622NB	4-1/4"	3/8"	\$53.90

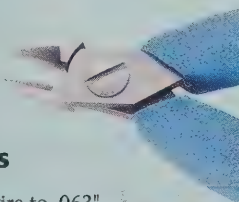


"2200" Series

Ergonomic Cutters and Pliers

- Superior handle design for natural positioning
- Durable internal springs for long life
- Opening stop prevents excessive hand spread

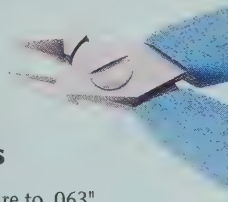
These high quality Swiss-made ergonomic pliers and cutters are designed for optimal repetitive work without fatigue. Tools are made of high quality tool steel and are precision machined. The tapered handle design permits the fingers and thumb to fall into a natural position automatically. An integrated opening stop limits the handles from opening too wide and reduces operator fatigue. Integrated spring and screw assemblies are built into each tool and guaranteed for life. ESD-Safe, soft molded foam-grip handles for maximum comfort.



Full-Flush Diagonal Cutters

Cuts soft copper wire to .063".

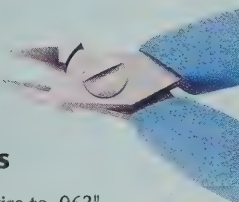
Part No.	Model	A	B	Price
408-721	2222E	4-1/2"	.394"	\$47.00



Super Full-Flush Diagonal Cutters

Cuts soft copper wire to .063".

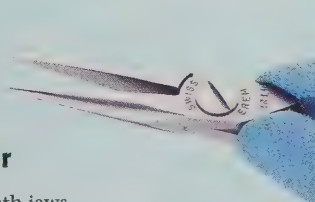
Part No.	Model	A	B	Price
408-720	2232E	4-1/2"	.394"	\$49.40



Semi-Flush Diagonal Cutters

Cuts soft copper wire to .063".

Part No.	Model	A	B	Price
408-722	2212E	4-1/2"	.394"	\$46.25



Needle Nose Plier

Has smooth jaws.

Part No.	Model	A	B	Price
408-719	2211P	6-1/2"	1-3/8"	\$44.95



Large Oval Head Cutters

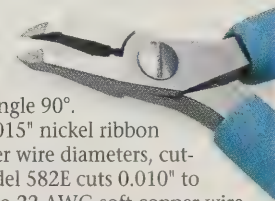
Cut soft copper wire up to 12 AWG. Model 812N features semi-flush cutting blades, and Model 822N features full-flush cutting blades.

Part No.	Model	A	B	Price
418-600	812N	4-3/4"	.563"	\$59.80
418-601	822N	4-3/4"	.563"	\$60.60



Magic Series Electronic Pliers & Cutters

Swiss-made "Magic" series of cutters and pliers are made for continuous duty production-line use and are famous for giving three to five times the life of ordinary tools. "Magic" series tools are distinguished by the following features: high-precision 100% machining; integrated spring and screw assemblies built into each tool and guaranteed for life; maximum opening stop with smooth action, precision alignment and uniform wear. Soft molded foam-grip handles for maximum comfort.



Angled Tip Cutters

Flush cutting edges. Tip angle 90°. Model 575E cuts 0.007" to 0.015" nickel ribbon and up to 26 AWG soft copper wire diameters, cutting blade length 0.157". Model 582E cuts 0.010" to 0.030" nickel ribbon and up to 22 AWG soft copper wire diameters, cutting blade length 0.257".

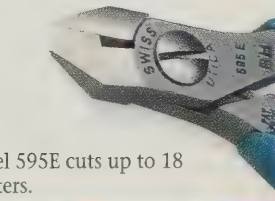
Part No.	Model	A	B	Price
115-141	575E	4-1/2"	.591"	\$81.10
115-143	582E	4-3/4"	.787"	\$77.00



DIP Lead Cutter

Angled tip cutter reaches between leads of DIP. Cuts leads without damage to the component. Cuts both Kovar IC leads and soft copper. Cutting blade length 1/4".

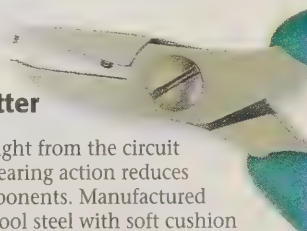
Part No.	Model	A	B	Price
115-144	593AE	4-1/4"	.787"	\$81.90



Diagonal Cutter

Flush cutting edges. Model 595E cuts up to 18 AWG soft copper wire diameters.

Part No.	Model	A	B	Price
115-145	595E	4-1/4"	.475"	\$50.55



Standoff Shear Cutter

Cuts leads to .040" height from the circuit board while transverse shearing action reduces mechanical stress to components. Manufactured from polished, extruded tool steel with soft cushion grips for comfort. Cut soft copper wire to .047" maximum. Other lead heights available by special order.

Part No.	Model	A	B	Price
130-519	530E10	4-1/2"	.40"	\$103.70

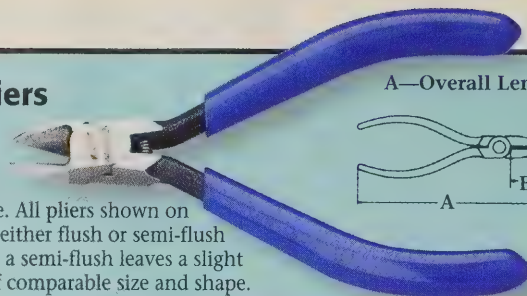
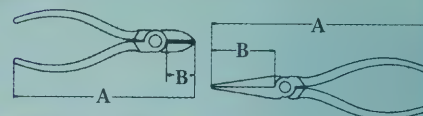


KLEIN TOOLS Electronic Cutters and Pliers

Spring-Loaded Action For Self-Opening

Klein pliers are made of the finest steel alloys, drop forged and hardened and polished. Mating surfaces are precision machined to ensure long tool life. All pliers shown on this page come with vinyl grip handles and return coil springs. Cutters have either flush or semi-flush cutting edges. A flush cutter leaves a clean, square cut on the lead-wire while a semi-flush leaves a slight taper to the lead-wire. Semi-flush cutters give longer life than flush cutters of comparable size and shape.

A—Overall Length B—Jaw Length



Short Chain Nose Pliers

Beveled edges. Models D321-4-1/2C and D317-5C have serrated jaws. Model D322-4-1/2C has smooth jaws.

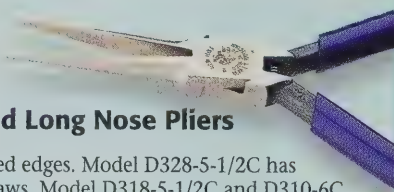
Part No.	Model	A	B	Price
114-708	D321-41/2C	4-3/4"	1"	\$21.53
114-709	D322-41/2C	4-3/4"	1"	\$22.97
114-705	D317-5C	5"	1-3/16"	\$22.63



Tapered Long Nose Pliers

Beveled edges. Model D328-5-1/2C has smooth jaws. Model D318-5-1/2C and D310-6C have serrated jaws.

Part No.	Model	A	B	Price
114-711	D328-5-1/2C	5-5/8"	1-11/16"	\$25.79
114-706	D318-5-1/2C	5-5/8"	1-11/16"	\$24.66
114-704	D310-6C	6-3/4"	1-7/8"	\$23.07



Long Nose Pliers with Side Cutters

Serrated jaws. Beveled edges. Tip diameter 1/32". Cutting blade length 7/16".

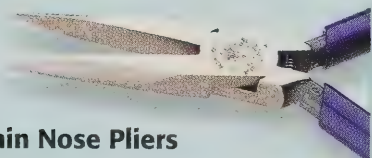
Part No.	Model	A	B	Price
114-697	D221-5-1/2C	5-1/2"	1-3/4"	\$25.27



Long Chain Nose Pliers

Beveled edges. Model D307-5-1/2C has serrated jaws. Model D327-5-1/2C has smooth jaws.

Part No.	Model	A	B	Price
114-702	D307-5-1/2C	5-1/2"	1-11/16"	\$23.22
114-710	D327-5-1/2C	5-1/2"	1-11/16"	\$24.26



Diagonal Cutters with Tapered Head

Semi-flush cutting edges. Pointed head for working in confined areas. Can cut soft copper wire from 12-20 AWG.

Part No.	Model	A	B	Price
115-004	D209-4C	4-1/4"	1/2"	\$29.68
115-005	D209-5C	5"	11/16"	\$29.81



Diagonal Cutter with Extra Narrow Jaw

Flush cutting edges. Extra narrow jaw for delicate work in confined areas. Jaw width is 3/8". Can cut soft copper wire from 12-20 AWG.

Part No.	Model	A	B	Price
190-128	D295-4C	4-3/16"	1/2"	\$34.45



Diagonal Cutters with Narrow Jaw

Flush cutting edges. Narrow jaw for working in confined areas. Polished head. Model D259-4C has a jaw width of 13/32". Model D244-5C has a jaw width of 1/2". Can cut soft copper wire 12-20 AWG.

Part No.	Model	A	B	Price
190-126	D259-4C	4-3/16"	1/2"	\$32.44
190-120	D244-5C	5"	11/16"	\$33.90



Diagonal Cutter

Semi-flush cutting edges. Tapered nose. Can cut soft copper wire from 12-20 AWG.

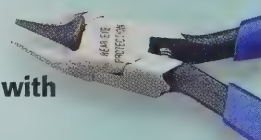
Part No.	Model	A	B	Price
190-124	D257-4C	4-3/16"	1/2"	\$29.45



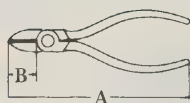
Diagonal Cutters with Relieved Head

Semi-flush cutting edges. Tapered head is ground down for working in confined areas. Can cut soft copper wire from 12-20 AWG.

Part No.	Model	A	B	Price
115-007	D219-4C	4-1/4"	1/2"	\$29.88
190-114	D219-5C	5"	11/16"	\$30.69



CHAN NEL LOCK



A—Overall Length
B—Jaw Length

Cutters

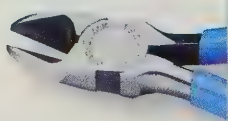
Made in the USA

These high quality cutters are made of polished, high carbon drop forged steel. Cutter blades are heat treated to hold their edge. All tools come with soft vinyl grip handles.

Heavy Duty Round Nose Cutters

Cut soft copper wire to 10 AWG.

Part No.	Model	A	B	Price
409-588	435	5"	.866"	\$21.60
409-587	436	6"	.846"	\$21.10



Heavy Duty Round Nose Cutter

Cuts soft copper wire to 8 AWG.

Part No.	Model	A	B	Price
409-586	437	7"	1"	\$21.95





Pliers

You can count on long years of use with your Jensen brand hand tools. In fact, we back them for as long as you own them.

- Fine grain alloy steel
- Comfortable cushion grip handles
- Individually inspected and finished

Color-coded handles allow you to easily select the exact pliers you need quickly from your tool pouch, tool box or bench. But color-coding is only part of the story.

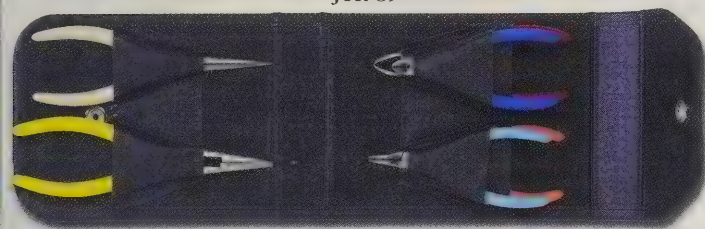
Jensen pliers are manufactured to the most stringent specifications to assure you of top performance on the job. Forged from fine grain alloy steel to exact size, shape and weight for smooth, easy operation. Gripping edges are accurately aligned to meet precisely and hold securely. Cutting edges are hardened, honed, hand finished and individually inspected. Handles are cushioned for working comfort.

Our Jensen pliers carry a **lifetime guarantee** in addition to our regular **30-day satisfaction guarantee**.



Color-Coded Cushioned Handles

JTK-89



JTK-82

Pliers Kits

JTK-82 includes 1-003, 1-005, 1-001 & 1-007 in sturdy roll pouch with hook and loop fastener.

JTK-89 includes all six pliers in sturdy roll pouch with hook and loop fastener closure or in heavy-duty vinyl fold-up case with pouches and snap-close cover.

Part No.	Description	Price
JTK-82	Pliers Kit in Roll Pouch, 4pc.	\$57.70
JTK-89R	Pliers Kit in Roll Pouch, 6pc.	\$90.80
JTK-89	Pliers Kit in Fold-Up Case, 6pc.	\$94.90
216-133	Fold Up Case with Snap only	\$10.00

Pliers & Cutters

Miniature Diagonal Cutters - Blue

Semi-flush cut for most types of small wire used in electronic work. Spring-loaded handles. Overall length 4-3/8", cut length 1/2".

Diagonal Cutting Pliers - Red

Narrow jaws reach easily into confined areas. Semi-flush cut. For general purpose electronic work. Overall length 5-1/4", cutting length 17/32".

Thin Needle Nose Pliers - Beige

Finely serrated tips and thin needle nose for pulling or bending wire in confined spaces. Spring-loaded handles. Overall length 6", nose length 2".

Chain Nose with Cutters - Yellow

Long nose and strong serrated jaws, sharp side cutter, ideal for a variety of electronic and electrical work. Overall length 6-1/2", nose length 1-7/8".

Miniature Chain Nose - Orange

Narrow tapered, serrated jaws. Hold, bend, loop and pull wires in close quarters. Spring-loaded handles. Overall length 4-7/8", nose length 1".

Thin Nose Diagonal Cutters - Turquoise

Flush-cutting diagonal cutter with thin pointed nose for reaching into tight areas. Spring-loaded handles. Overall length 4-3/8", cut length 1/2".

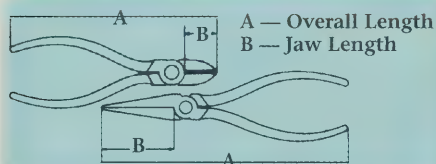
Part No.	Description	Color	Price
1-003	Miniature Diagonal Cutters	Blue	\$13.75
1-005	Diagonal Cutting Pliers	Red	\$13.00
1-004	Thin Needle Nose Pliers	Beige	\$15.55
1-001	Chain Nose with Cutters	Yellow	\$13.75
1-007	Miniature Chain Nose	Orange	\$13.75
1-002	Thin Nose Diagonal Cutter	Turquoise	\$16.25



Super Tools™ Precision Electronic Pliers

- High leverage, ergonomic handle
- ESD-Safe cushion grips
- Rockwell hardness of 65 HRC

These precision cutters and pliers are forged from high chromium, high carbon steel, which has a hardness of 65 HRC. The ergonomic foam grips are also static dissipative. They have a corrosion resistant, anti glare, black oxide finish, and the edges are hardened and polished. All models feature stainless steel leaf springs.



Electronic Pliers and Cutters

- ESD-Safe cushion grips

Made of the finest high carbon, high chromium alloy steel, these cutters and pliers feature machined and lapped joint construction for precise alignment even after considerable use. Full polish finish prevents corrosion, and dangerous flaking, while making cleanup quick and easy. Stainless steel leaf springs, and soft, ESD-Safe cushion grips provide maximum comfort and repeatability. Cutters are available with semi-flush or full flush cutting edges.



Slim Tapered Head Cutter

Full flush cutting edges. Cuts up to 18 AWG soft copper wire.

Part No.	A	B	Price
419-318	4.8"	.40"	\$27.85



Slim Oval Head Cutter

Full flush cutting edges. Cuts up to 18 AWG soft copper wire.

Part No.	A	B	Price
419-319	4.8"	.40"	\$27.85

Oval Head Cutter

Semi-flush cutting edges. Cuts up to 16 AWG soft copper wire.

Part No.	Model	A	B	Price
161-555	S411E	5.65"	.40"	\$62.15

Oval Head Cutters

Model S610E features bevel cutting edges. Model S611E features semi-flush cutting edges. Both models will cut up to 12 AWG soft copper wire.

Part No.	Model	A	B	Price
175-627	S610E	5.6"	.32"	\$64.30
161-557	S611E	5.6"	.32"	\$66.45



Oval Head Flush Cutter

Full flush cutting edges. Cuts up to 16 AWG soft copper wire.

Part No.	A	B	Price
419-320	4.8"	.40"	\$27.85



Oval Head Semi-Flush Cutter

Semi-flush cutting edges. Cuts up to 13 AWG soft copper wire.

Part No.	A	B	Price
419-321	5"	.50"	\$30.00



Tapered Head Cutter

Full flush cutting edges. Cuts up to 14 AWG soft copper wire.

Part No.	A	B	Price
419-322	5"	.50"	\$30.00



Duck Bill Pliers

Features smooth jaws.

Part No.	A	B	Price
419-323	5.3"	1"	\$21.00

Long Nose Pliers

The S220E has smooth jaws, and the S221E has serrated jaws.

Part No.	Model	A	B	Price
190-514	S220E	6.13"	1"	\$34.30
175-823	S221E	6.13"	1"	\$34.30

Ultra Fine, Relieved Tip Cutter

Full flush cutting edges. Cuts up to 24 AWG soft copper wire.

Part No.	Model	A	B	Price
416-946	S219E	6"	.17"	\$75.00



Curved Jaw Long Nose Pliers

Features smooth jaws.

Part No.	A	B	Price
419-324	5.3"	.90"	\$28.60



Micro Long Nose Pliers

Part No. 419-326 features serrated jaws. Part No. 419-325 features smooth jaws.

Part No.	A	B	Price
419-326	4.6"	.88"	\$25.00
419-325	4.6"	.88"	\$22.95



Long Nose Pliers

Part No. 419-328 features serrated jaws. Part No. 419-327 features smooth jaws.

Part No.	A	B	Price
419-328	5.5"	1.8"	\$26.50
419-327	5.5"	1.8"	\$26.50



Needle Nose Pliers

Features serrated jaws.

Part No.	A	B	Price
419-329	6.0"	1.7"	\$26.50



C.K. Ecotronic Electronic Cutters and Pliers

German made cutters and pliers are manufactured from drop forged carbon alloy steel, hardened and tempered, with induction hardened cutting edges. Tools feature leaf springs, black case-hardened finish and red PVC handles.

Round Nose Cutter

Standard cutting edges. Cuts soft copper wire to .060" and hard wire to .016".

Part No.	Model	A	B	Price
130-533	3953	4-3/4"	.512"	\$32.55

Chain Nose Pliers

Both models feature non-marring, smooth jaws.

Part No.	Model	A	B	Price
130-530	3952	5"	.866"	\$29.69
130-532	3977-1	5-3/4"	1.575"	\$36.23

Oval Head Side Cutter

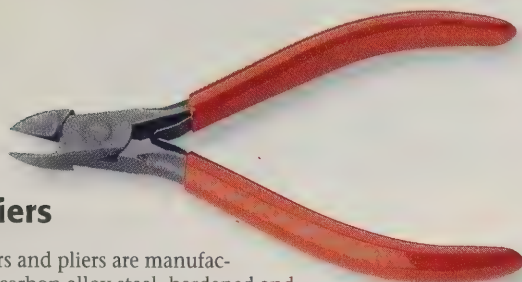
Oval head, high cutting capacity. Cuts soft copper wire to .10" and hard wire to .034".

Part No.	Model	A	B	Price
425-149	3955	5-1/4"	.788"	\$40.13

Flat Nose Pliers

Flat nose with smooth jaws.

Part No.	Model	A	B	Price
425-148	3989	5-3/4"	.787"	\$33.31



End Cutter

Flush cutting edges. Cuts component leads in horizontal or vertical position on densely populated PC boards. Cutting blade length .157". Cuts soft copper wire to .032" and soft steel wire to .024".

Part No.	Model	A	B	Price
130-534	3954F	5"	.906"	\$40.50

Duck Bill Pliers

Flat nose with smooth jaws.

Part No.	Model	A	B	Price
130-528	3950	4-3/4"	.787"	\$29.69

Diagonal Cutter With Relieved Head

Flush cutting edges. Tapered and relieved head is ground down for working in confined areas. Cuts soft copper wire to .047" and soft steel wire to .032".

Part No.	Model	A	B	Price
130-536	3966F	4-3/4"	.473"	\$41.77

Curved Chain Nose Pliers

Serrated jaws with nose bent 45°.

Part No.	Model	A	B	Price
130-531	3969	5-3/4"	1.130"	\$38.28



Stainless Steel Electronic Cutters and Pliers

Made of stainless steel alloy, these cutters and pliers feature box joint construction, and retain precise alignment under strain and after considerable use. Pliers are accurately hardened and tempered. Cutting edges are induction hardened. Mirror polished stainless steel prevents corrosion, dangerous flaking, and makes cleaning easy. Leaf springs and ESD-Safe cushion grips provide a comfortable action.

Oval Head Cutter Flush Cut

Cuts up to 24 AWG soft copper wire.

Part No.	A	B	Price
191-944	4-1/2"	35/64"	\$13.35

Semi-Flush

Cuts up to 22 AWG soft copper wire.

Part No.	A	B	Price
406-744	4-1/2"	35/64"	\$13.35

Tapered Head Cutter Flush Cut

Cuts up to 22 AWG soft copper wire.

Part No.	A	B	Price
406-742	4-1/2"	35/64"	\$13.35

Semi-Flush

Cuts up to 22 AWG soft copper wire.

Part No.	A	B	Price
406-741	4-1/2"	35/64"	\$13.35

Mini Tapered Head Cutter

Flush cutting edge. Cuts up to 24 AWG soft copper wire.

Part No.	A	B	Price
191-942	4-3/8"	29/64"	\$13.35

Chain Nose Plier Smooth Jaws

Ideal for forming, bending and precision assembly work.

Part No.	A	B	Price
191-940	4-1/2"	15/16"	\$12.25
406-739	5"	1-3/64"	\$12.25

Serrated Jaws

Part No.	A	B	Price
406-738	4-1/2"	15/16"	\$12.25
406-737	5"	1-3/64"	\$12.25

Long Chain Nose Plier Smooth Jaws

For forming, bending and precision assembly work. Excellent for difficult to reach areas.

Part No.	A	B	Price
191-938	5"	1-27/64"	\$12.25

Serrated Jaws

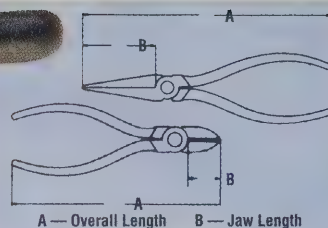
Part No.	A	B	Price
406-735	5"	1-27/64"	\$12.25



Electronic Pliers

High Quality, Precision Tools for Electronics

These high-quality pliers (made in Germany), designed for precision electronic work, have a mirror-polished head and feature a precision box-joint for consistent and accurate alignment of tips and cutting edges. Double-leaf compression springs and firm-grip static-dissipative handles provide ESD protection and excellent control for fine work.



Diagonal Cutter

Flush cutting edges cut up to 22 AWG soft copper wire.

Part No.	Model	A	B	Price
114-875	3780HF	4-1/4"	11/32"	\$56.05



Diagonal Cutter

Semi-flush cutting edges cut up to 18 AWG soft copper wire.

Part No.	Model	A	B	Price
114-877	3781H	4-1/2"	1/2"	\$55.72



Round Nose Cutter with Carbide Blades

Standard cutting edges with carbide inserts. Cuts hard wire to 18 AWG and piano wire to 22 AWG. Carbide blades offer longer life when cutting softer materials such as copper wire.

Part No.	Model	A	B	Price
114-874	3779H	4-1/2"	.394"	\$143.53



SMD Angled Tip Cutter

Flush cutting edges cut up to 22 AWG soft copper wire. Narrow jaw (head width only .335").

Part No.	Model	A	B	Price
114-885	3871HF	4-3/4"	1-3/16"	\$103.38



Angle Tip Cutter

Flush cutting edges cut up to 16AWG soft copper wire. Tip angle 29°.

Part No.	Model	A	B	Price
114-883	3799HF	4-1/4"	13/32"	\$66.73



Angled Tip Cutter

Flush cutting edges cut up to 22 AWG soft copper wire.

Part No.	Model	A	B	Price
114-881	3786HF	4-3/4"	25/32"	\$69.59



Chain Nose Pliers

Model 3772H has smooth jaws. Models 3772-1H and 3777H have serrated jaws.

Part No.	Model	A	B	Price
114-580	3772H	4-3/4"	7/8"	\$42.99
114-579	3772-1H	4-3/4"	7/8"	\$54.91
114-582	3777H	5-3/4"	1-1/2"	\$54.30



6-Piece Precision Electronic Pliers Kit

■ Lifetime Warranty

A complete assortment of our C.K. pliers which feature mirror-polish heads and box-joints for accurate jaw alignment, and static-dissipative handles for ESD protection. Kit contains three cutters and three pliers selected from tools shown on this page. Cutters include Models 3780H, 3766HF and 3786HF. Pliers include Models 3772H, 3783, 3770H. Black vinyl zipper case has sewn pockets and measures 7" x 6" x 1-3/4" closed.

Part No.	Model	Description	Price
117-728	CE3706	Electronic Pliers Kit	\$245.00

Needle Nose Pliers

Model 3783 has smooth jaws. (PVC handles).

Part No.	Model	A	B	Price
114-583	3783	5-3/4"	1-1/2"	\$46.65



Round Jaw Pliers.

Smooth round jaws for forming loops in wire

Part No.	Model	A	B	Price
114-577	3771H	4-3/4"	3/4"	\$43.73



Curved Chain Nose Pliers

Model 3769 has serrated jaws, vinyl grip and the nose is bent 45°. Model 3767H has static dissipative handles, smooth jaws, and the nose is bent 60°.

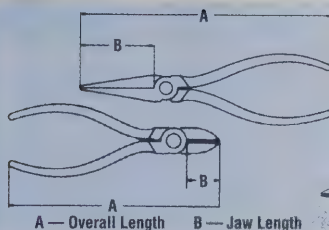
Part No.	Model	A	B	Price
114-573	3769	5-3/4"	1-1/8"	\$49.20
114-572	3767H	4-3/4"	3/4"	\$45.61



Duck Bill Pliers

Flat nose. Model 3770H has smooth jaws. Model 3770-1H has serrated jaws.

Part No.	Model	A	B	Price
114-575	3770H	4-3/4"	7/8"	\$42.99
114-574	3770-1H	4-3/4"	7/8"	\$42.99



SensoPlus® Ergonomic Electronic Cutters and Pliers

- Unique mid-size handle
- ESD-Safe

The perfect shape. Scientifically designed with your hand in mind. High-quality pliers and cutters (made in Germany) designed for precision electronic work. ESD-Safe, soft, comfortable and slip-free thermo plastic grips give you fatigue-free, safe control for the most exacting work. Spot welded double leaf spring ensures consistent functioning for a lifetime of top performance. Precision box joint provides smooth action for exact guidance of jaws without the need for re-adjustment. Mirror polishing reduces risks of corrosion, chrome flaking, and stays clean. Cutting edges are induction hardened to maintain cutting ease and ensure long life.



Round Nose Cutter Flush Cut

Cuts soft copper wire to 15 AWG.

Part No.	Model	A	B	Price
406-810	3773DF	5"	.512"	\$56.72

Semi-Flush Cut

Cuts soft steel wire to 18 AWG, and copper wire to 15 AWG.

Part No.	Model	A	B	Price
406-809	3773D	5"	.512"	\$56.72



Diagonal Cutter with Relieved Head

Full flush cutting edges cut soft steel wire to 22 AWG and copper wire to 18 AWG.

Part No.	Model	A	B	Price
406-805	3766DF	4.5"	.354"	\$61.56



Oblique Cutter

Slim head is ideal for limited access areas. Flush cutting edges cut soft steel wire to 22 AWG, and copper wire to 20 AWG.

Part No.	Model	A	B	Price
406-804	3786DF	5.25"	.866"	\$73.88



Extra Slim Oblique Cutter

Extra slim head is ideal for very tight spaces. Flush cutting edges cut copper wire to 22 AWG.

Part No.	Model	A	B	Price
406-811	3871DF	5"	.827"	\$105.62



Angled Cutter

Flush cutting oblique head angled at 29° can be used horizontally or vertically. Cuts hard wire to 26 AWG, soft steel wire to 18 AWG, and copper wire to 16 AWG.

Part No.	Model	A	B	Price
406-803	3799DF	4.75"	.394"	\$71.05



Chain Nose Pliers Smooth Jaws

Part No.	Model	A	B	Price
406-802	3772D	5.25"	.866"	\$47.15

Serrated Jaws

Part No.	Model	A	B	Price
406-801	3772-1D	5.25"	.866"	\$48.03



Round Nose Cutter with Tapered Head

Cuts soft copper wire to 15 AWG

Part No.	Model	A	B	Price
406-707	3740D	5"	.354"	\$61.45



Diagonal Cutter with Tapered Head

Flush-Cut

Cuts soft copper wire to 16 AWG.

Part No.	Model	A	B	Price
406-806	3781DF	5"	.512"	\$59.95

Semi-Flush

Cuts soft copper wire to 16 AWG.

Part No.	Model	A	B	Price
406-807	3781D	5"	.512"	\$59.95



6-Piece SensoPlus® Ergonomic Pliers & Cutter Set

A complete assortment of our C.K. SensoPlus® precision pliers and cutters, featuring mirror-polished heads and box-joints for accurate jaw alignment, and comfortable, ergonomic handles that are ESD-safe. Kit contains four cutters and two pliers selected from the tools shown on this page. Cutters include models 3773D, 3880DF, 3766DF, 3786DF. Pliers include models 3770D, and 3772D. Set comes complete with black vinyl zipper case.

Part No.	Model	Description	Price
408-793	3703D	Electronic Pliers/Cutter Set	\$381.48

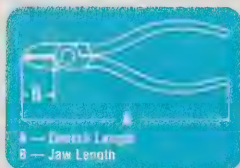


New

Five Star 7200 Series Cutters

- Five star quality
- Made in the USA
- Ergonomic handles
- ESD-Safe grips

7200 series cutters are designed for smaller electronic assembly. Grips are both ergonomic and ESD-Safe.



Small Round Head

Semi flush cutting edges. Cuts up to 20 AWG soft copper wire.

Part No.	Model	A	B	Price
424-124	7230E	4-1/2"	1/4"	\$67.60



Miniature Oval Head Cutters

Maximum full flush cutting edges. Cuts up to 22 AWG soft copper wire.

Part No.	Model	A	B	Price
424-127	7237E	4-1/2"	1/4"	\$73.50



Tapered Head Cutters

Maximum full flush cutting edges. Cuts up to 18 AWG soft copper wire.

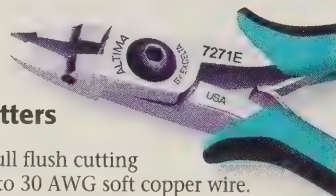
Part No.	Model	A	B	Price
424-126	7244E	4-1/2"	1/4"	\$65.75



Fine Tip Cutters

Optimum full flush cutting edges. Cuts up to 30 AWG soft copper wire.

Part No.	Model	A	B	Price
424-125	7271E	4-3/4"	1/8"	\$100.50



Angulated Head

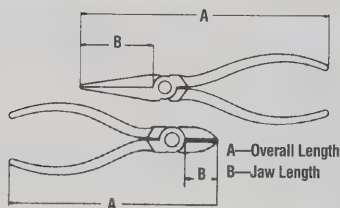
Optimum full flush cutting edges. Cuts up to 26 AWG soft copper wire.

Part No.	Model	A	B	Price
142-146	7275E	4-3/4"	5/32"	\$88.50



Stainless Steel Pliers

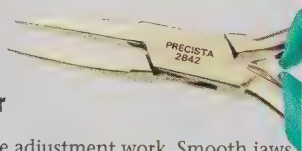
Drop-forged stainless steel pliers feature precision box joint construction for perfect jaw alignment. Dual leaf springs and non-slip vinyl grips provide maximum performance and comfort. Polished surface reduces corrosion. Overall length is only 4-1/2".



Flat Nose Plier

Excellent for fine adjustment work. Smooth jaws prevent nicking and marring of component leads.

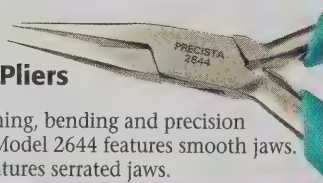
Part No.	Model	A	B	Price
420-379	2642	4-1/2"	29/32"	\$19.50



Chain Nose Pliers

Ideal for forming, bending and precision assembly work. Model 2644 features smooth jaws. Model 2644D features serrated jaws.

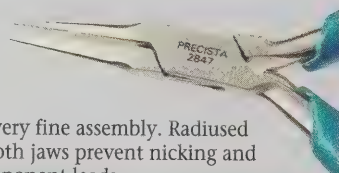
Part No.	Model	A	B	Price
420-380	2644	4-1/2"	29/32"	\$15.20
420-381	2644D	4-1/2"	29/32"	\$16.80



Needle Nose Plier

Perfect for very fine assembly. Radiused edges and smooth jaws prevent nicking and marring of component leads.

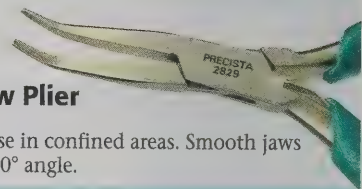
Part No.	Model	A	B	Price
420-382	2647	4-1/2"	29/32"	\$15.20



Curved Jaw Plier

Ideal for use in confined areas. Smooth jaws are bent at a 60° angle.

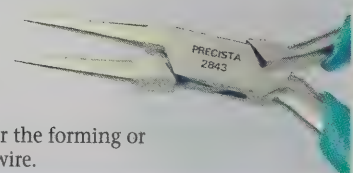
Part No.	Model	A	B	Price
420-383	2629	4-1/2"	3/4"	\$15.20



Round Nose Plier

Excellent for the forming or coiling of fine wire.

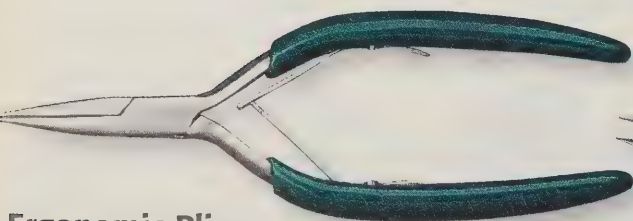
Part No.	Model	A	B	Price
416-552	2643	4-1/2"	29/32"	\$19.20



The great selection of precision tools continues online: contacteast.com and jensentools.com

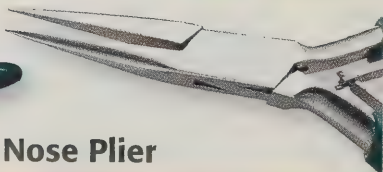
Ergonomic Pliers

Ergonomically designed, ideal for electronic work. Drop-forged stainless steel pliers feature box-joint construction, leaf spring and vinyl grips. Length 6".



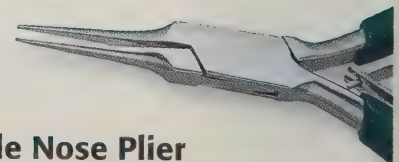
Chain Nose Plier

Part No.	Model	A	B	Price
401-515	2844L	6"	29/32"	\$19.70



Needle Nose Plier

Part No.	Model	A	B	Price
401-514	2847L	6"	29/32"	\$19.70





Lavender Line™ Ultra-Fine Precision Pliers

- Long ergonomic handles
- Soft cushion ESD-Safe grips

These pliers are constructed with Chrome Vanadium Steel, and feature flame hardened tips. Ultra-fine heads are ideal for working in confined spaces. Precision box joints allow for perfect jaw alignment.



Flat Nose Plier

Smooth jaws.

Part No.	Model	A	B	Price
408-466	421S	5.25"	.906"	\$42.60



Round Nose Plier

Part No.	Model	A	B	Price
408-467	431S	5.25"	.906"	\$43.85



Long Narrow Chain Nose Plier

Smooth Jaw

Beveled edges.

Part No.	Model	A	B	Price
408-468	44-1S	5.25"	.906"	\$40.10

Serrated Jaw

Beveled edges.

Part No.	Model	A	B	Price
408-506	441SD	5.25"	.906"	\$40.30



Needle Nose Plier

Smooth Jaw

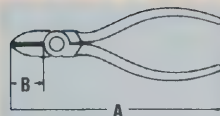
Radiused edges.

Part No.	Model	A	B	Price
408-469	471S	5.25"	.906"	\$42.40

Serrated Jaw

Radiused edges.

Part No.	Model	A	B	Price
408-508	471SD	5.25"	.906"	\$37.70

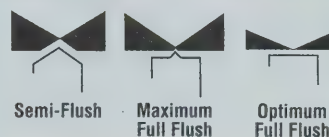
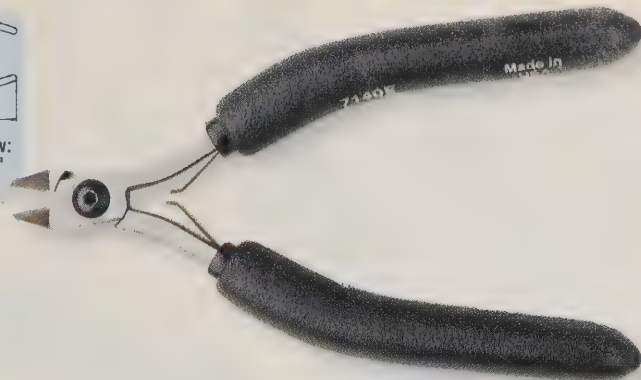


For all cutters listed below:
A — Overall Length = 5.5"
B — Jaw Length = 0.35"

Altima® Ergonomic Precision Cutters

- Ergonomically long handles
- Rockwell hardness of 63-65 HRC
- ESD-Safe static dissipative grips

Precision cutters feature a matched screw/lap joint for superior blade alignment. Tough, resistant cutting edges are hardened and tempered to 63-65 HRC. Three types of cut to choose from: "Semi-Flush" leaves a noticeable "pinch" but offers the longest tool life. "Maximum Full Flush" leaves slightly more "pinch" and offers longer tool life. "Optimum Full Flush" leaves a hardly-noticeable "pinch" on the cut ends to meet military and medical needs but offers a shorter tool life. Ergonomically designed, soft-cushion static safe grips help lessen fatigue and increase productivity. Wire gauge capacity shown is for soft copper wire only.



Oval Head Cutters

Part No.	Model	Type of Cut	Wire Gauge Capacity	Price
130-323	7140E	Semi-Flush	.010"-.044"	\$62.80
130-324	7141E	Maximum Full Flush	.008"-.032"	\$64.65
130-325	7142E	Optimum Full Flush	.005"-.025"	\$70.15



Relieved Tapered Head Cutters

Part No.	Model	Type of Cut	Wire Gauge Capacity	Price
130-329	7146E	Semi-Flush	.010"-.040"	\$66.75
130-330	7147E	Maximum Full Flush	.008"-.028"	\$69.05
130-331	7148E	Optimum Full Flush	.005"-.020"	\$82.05



Tapered Head Cutters

Part No.	Model	Type of Cut	Wire Gauge Capacity	Price
130-326	7143E	Semi-Flush	.010"-.040"	\$65.05
130-327	7144E	Maximum Full Flush	.008"-.028"	\$66.00
130-328	7145E	Optimum Full Flush	.005"-.020"	\$75.15

Precision Hard Wire Cutters

High Speed Tool Steel Provide Extra Blade Strength and Long Tool Life

- Designed for cutting Stainless Steel, Nitinol, Elgiloy and Tungsten

These cutters are ideal for cutting most types of hard wire. Three styles to choose from. ESD-Safe cushion grips are standard.



Tip Cutter with Relieved Head

Small head and sharp tips make this cutter excellent for use in confined spaces. Cuts up to .015" hard wire.

Part No.	Model	A	B	Price
425-509	1003EH	5"	.650"	\$182.60



Standard Round Head Cutter

Standard round head design makes this the ideal cutter for large wire. Cuts up to .028".

Part No.	Model	A	B	Price
425-511	1200EH	5"	.750"	\$182.60



Oblique Angled Cutter

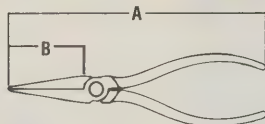
The 45° angle cutting blade provides high visibility for cutting in confined spaces. Cuts up to .015" hard wire.

Part No.	Model	A	B	Price
425-510	1006EH	5"	.375"	\$182.60

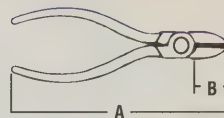


Ergonomic Precision Pliers

Cutters and pliers are made from an advanced forging with carbon-chrome ball-bearing steel and have a cutting edge hardness of 63-65 Rockwell C. The precision ground joint and adjustable screw-nut assures uniform wear without "play" for the life of the tool. The handle is truly an ergonomic achievement. The length (4.5") and the span (3"-4.5", open and 2"-2.5", closed) eliminates extreme muscle contractions which affects nerves and tendons. The handle material, surface and curvature fit a variety of hand sizes and eliminates pressure points which lead to nerve and blood vessel damage.



A—Overall Length



B—Jaw Length

Tapered Head Cutters Micro-bevel cutting edges

Part No.	Model	Wire Gauge		Capacity	Price
		A	B		
190-174	HS8143	5.7"	.39"	16-32	\$64.35
190-182	HS8153	5.8"	.49"	14-28	\$65.65
190-192	HS8163	6.3"	.63"	12-26	\$69.00

Flush cutting edges

Part No.	Model	Wire Gauge		Capacity	Price
		A	B		
190-176	HS8144	5.7"	.39"	16-38	\$65.65
190-184	HS8154	5.8"	.49"	14-32	\$76.55
190-194	HS8164	6.3"	.63"	12-28	\$79.50

Oval Head Cutters Micro-bevel cutting edges

Part No.	Model	Wire Gauge		Capacity	Price
		A	B		
190-166	HS8130	5.6"	.31"	18-32	\$63.15
190-170	HS8140	5.7"	.39"	16-32	\$60.60
190-178	HS8150	5.8"	.49"	14-28	\$62.30
190-188	HS8160	6.3"	.63"	12-26	\$65.25

Flush cutting edges

Part No.	Model	Wire Gauge		Capacity	Price
		A	B		
190-168	HS8131	5.6"	.31"	18-38	\$65.25
190-172	HS8141	5.7"	.39"	16-38	\$62.30
190-180	HS8151	5.8"	.49"	14-32	\$65.25
190-190	HS8161	6.3"	.63"	12-28	\$72.80

Oblique Cutters

Model HS8246 has micro bevel cutting edges. Model HS8247 has flush cutting edges.

Part No.	Model	Wire Gauge		Capacity	Price
		A	B		
190-200	HS8246	6.0"	.71"	18-32	\$110.30
190-202	HS8247	6.0"	.71"	18-38	\$104.75

Short Nose Pliers

Smooth jaws with beveled edges.

Part No.	Model	A	B	Price
114-748	HS7893	6.1"	.79"	\$59.80

Long Nose Pliers

Model HS7890 has smooth jaws. Model 7891 has serrated jaws.

Part No.	Model	A	B	Price
114-744	HS7890	6.6"	1.26"	\$58.90
114-745	HS7891	6.6"	1.26"	\$59.30



Rx Series Ergonomic Precision Pliers

- Adjustable Handle Spring
- ESD-Safe Grips

Cutters and pliers are made from an advanced forging with carbon-chrome ball-bearing steel and have a cutting edge hardness of 63-65 Rockwell C. The precision ground joint and adjustable screw-nut assures uniform wear without "play" for the life of the tool. An adjustable handle spring and a series of vertical ports allows you to change the width and tension of the tool to fit your individual physical requirements. The ergonomic handle is slightly rounded and wide, creating excellent surface distribution. These tools are ideal for repetitive work as less force is needed during cutting.



Oval Head Cutters Micro-bevel cutting edges

Part No.	Model	Wire Gauge		Capacity	Price
		A	B		
401-451	RX8130	5.2"	.31"	18-32	\$56.75
401-448	RX8140	5.3"	.39"	16-32	\$54.25
401-468	RX8150	5.4"	.49"	14-28	\$56.75

Flush cutting edges

Part No.	Model	Wire Gauge		Capacity	Price
		A	B		
401-471	RX8131	5.2"	.31"	18-38	\$58.90
401-470	RX8141	5.3"	.39"	16-38	\$55.95
401-467	RX8151	5.4"	.49"	14-32	\$58.90



Tapered Head Cutters

Model RX8143 has micro bevel cutting edges. Model RX8144 has flush cutting edges.

Part No.	Model	Wire Gauge		Capacity	Price
		A	B		
401-465	RX8143	5.3"	.39"	16-32	\$58.55
401-464	RX8144	5.3"	.39"	16-38	\$59.30



Relieved Head Cutters

Model RX8146 has micro bevel cutting edges. Model RX8147 has flush cutting edges.

Part No.	Model	Wire Gauge		Capacity	Price
		A	B		
401-463	RX8146	5.3"	.39"	18-32	\$59.80
401-462	RX8147	5.3"	.39"	18-38	\$61.80



Oblique Cutters

Tip angled 45°. Flush cutting edges.

Part No.	Model	Wire Gauge		Capacity	Price
		A	B		
401-459	RX8247	5.6"	.71"	18-38	\$98.50
401-458	RX8248	5.6"	.71"	22-32	\$103.55



Short Nose Pliers

Smooth jaws with beveled edges.

Part No.	Model	A	B	Price
401-454	RX7893	5.7"	.79"	\$53.45



Long Nose Pliers

Model RX7890 has smooth jaws. Model RX7891 has serrated jaws.

Part No.	Model	A	B	Price
401-447	RX7890	6.3"	1.26"	\$52.60
401-456	RX7891	6.3"	1.26"	\$53.05



Round Nose Pliers

Part No.	Model	A	B	Price
401-452	RX7590	5.7"	.79"	\$53.45



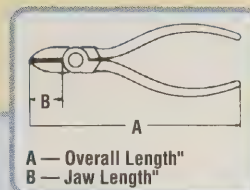
Long-Life Precision Cutters

Unsurpassed Precision and Long Life

Carbon steel cutter provides unsurpassed cutter life over a wide range of wire diameters and materials. Advanced Swedish design and manufacturing techniques set this tool apart from all others. Black anodized corrosion-resistant surface eliminates light reflection. Jaw shape gives maximum accessibility in confined areas. Precision-ground joint and adjustable screw-nut assures uniform wear without "play" for life of tool. Wire diameter capacity is printed on the inside of handles for handy reference. Tools come with two leaf springs and non-slip molded plastic gripping handles. Model 8140S has safety clip to prevent "flying" leads. Model 8147 has a tapered and relieved head.

Part No.	Model	A	B	Description	Wire Gauge Capacity	Price
114-947	8140	4-3/8"	25/64"	Semi-Flush Cut	.008" to .049"	\$46.25
114-949	8140S	4-3/8"	25/64"	Semi-Flush Cut	.008" to .049"	\$49.70
114-950	8141	4-3/8"	25/64"	Flush Cut	.008" to .049"	\$48.00
114-957	8147	4-3/8"	25/64"	Flush Cut	.008" to .049"	\$53.85
114-958	8150	4-1/2"	1/2"	Semi-Flush Cut	.012" to .063"	\$48.80
114-962	8160	5"	5/8"	Semi-Flush Cut	.016" to .078"	\$50.90

*Soft copper wire.



ESD-Safe Ergonomic Ex Series Cutters

- Precision joints and hardened carbon steel cutting edges provide consistent high performance and long tool life
- Ergonomically designed, high-friction grips for safe and sure operation
- ESD safe for use in sensitive environments

New ESD-safe, high-friction materials are incorporated into the patented handles to provide better tactile response and ultimate control. Hardened alloy steel and high-technology screw joints-with lifetime lubrication-offer extended tool life.

New



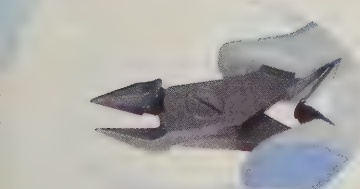
Tapered Ultra-Flush Diagonal Cutter

Part No.	Model	A	B	Price
425-503	677-EI	4.75"	.625"	\$62.70



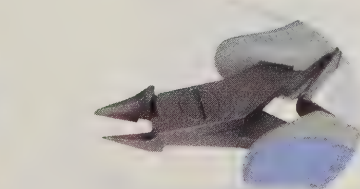
Angled Flush Tip Cutter

Part No.	Model	A	B	Price
425-501	675-EI	5"	.625"	\$77.70



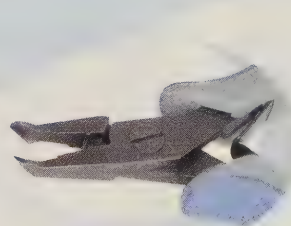
Tapered and Relieved Flush Diagonal Cutter

Part No.	Model	A	B	Price
425-504	776-EI	4.5"	.53"	\$54.20



Tapered and Relieved Flush Diagonal Cutter

Part No.	Model	A	B	Price
425-502	676-EI	4.75"	.625"	\$65.60



Tapered Semi-Flush Angle Head Cutter

Part No.	Model	A	B	Price
425-198	582-EI	4.75"	.70"	\$65.30



Semi-Flush Tip Cutter

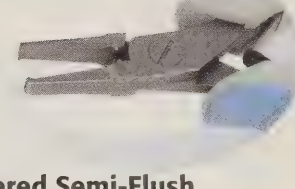
Full-flush cutting edges. For 36 to 20 AWG soft copper wire.

Part No.	Model	A	B	Price
425-195	570-EI	4.75"	.90"	\$67.10



Extra-Small Flush Oval Head Cutter

Part No.	Model	A	B	Price
425-199	610-EI	4.75"	.30"	\$67.80



Tapered Semi-Flush End Cutter

Part No.	Model	A	B	Price
425-196	573-EI	4.75"	.90"	\$62.70



Medium Relieved Flush Tip Cutter

Part No.	Model	A	B	Price
425-500	670-EI	5"	.66"	\$73.30



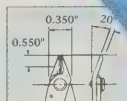
Semi-Flush Angle Head Cutter

Part No.	Model	A	B	Price
425-197	575-EI	4.75"	.70"	\$65.30



XURON
CORP.

Micro-Shear® Flush Cutters



**Popular and Economical
Shear Cutter**

- Non-slip rubber grips
- Flat return spring with lifetime warranty

Micro-Shear wire cutters feature thin profile heads that allow for better access than conventional cutters. Shear type cutters reduce shock and require about half the force of a conventional, compression (drop forged) type cutter. Tools are made from high quality carbon steel and cutting edges are precision ground. Micro-Shears come in two series: the economy-priced 170-II series and the long-life LX series. Both series have optional safety clips to protect operators from flying cut wires. Both series also offer optional static dissipative (10⁵ ohms) black plastic grips.

170-II Series Micro-Shears

Cuts soft wire up to 20 AWG. Black finish. 5" long.

Part No.	Model	Safety Clip	Static-Safe Grips	Price
114-845	170-II	N	N	\$6.05
114-848	170-IIIF	Y	N	\$7.80
114-846	170-IIAS	N	Y	\$7.80

LX Series Micro-Shears

Cut Dumet and Kovar in addition to soft wire to 18 AWG. LX Series tools have bright, polished finish and are 5" long.

Part No.	Model	Safety Clip	Static-Safe Grips	Price
115-058	LX	N	N	\$13.75
115-065	LXF	Y	N	\$14.10
115-063	LXAS	N	Y	\$13.95

XURON
CORP.

Ergonomic Flush-Cutting Shear

These are ergonomically shaped versions of the 9100 series cutters. Longer handle length, limited handle spread and rubber grip shape reduce pressure at any point along the hand grip. Two models to choose from: Model 9100 has an oval shaped head. Model 9200 has a tapered head. Both are 5-3/4" long and are available with an optional safety clip. Rated for soft copper wire to a maximum of 14 AWG.

Part No.	Model	Safety Clip	Price
114-977	9100LH	No	\$20.75
114-978	9100LHF	Yes	\$21.75
114-987	9200LH	No	\$20.75
114-988	9200LHF	Yes	\$21.75



XURON
CORP.

Micro-Shear® Heavy Duty Flush Cutters

Rated to Cut from 1 Mil Lead to 14 AWG Copper Wire

These cutters feature durable hardened blades (60-62 RC) to cut everything from 1 mil leads up to 14 AWG copper wire. The pivot point is an adjustable, high precision screw and post, ensuring optimal shearing action over the life of the tool. Handles have non-slip rubber grips, and a return spring with a life-time warranty.

Model 9100 Oval Head

Part No.	Model	Lead Retainer	Static-Safe Grips	Price
114-973	9100	N	N	\$19.25
114-976	9100F	Y	N	\$20.50
114-974	9100AS	N	Y	\$20.70
114-975	9100ASF	Y	Y	\$21.50

Model 9200 Tapered Head

Part No.	Model	Lead Retainer	Static-Safe Grips	Price
114-983	9200	N	N	\$19.25
114-986	9200F	Y	N	\$20.50
114-984	9200AS	N	Y	\$20.50
114-985	9200ASF	Y	Y	\$21.50

Model 9250 Extra Tapered Head

Extra tapered head designed to fit into extremely tight spaces.

Part No.	Model	Lead Retainer	Static-Safe Grips	Price
408-453	9250ET	N	N	\$26.75
408-454	9250ETAS	N	Y	\$28.00

XURON
CORP.

Micro-Shear® Heavy-Duty Flush Cutters

This is a longer version of the heavy-duty Micro-Shear 9100, but designed to cut up to 16 AWG soft wire. Tool is 6" long with 7/16" jaw length. Has soft molded contoured handles and return spring. Optional safety clip prevents "flying" lead wires.

Part No.	Model	Description	Price
114-860	2175	Cutter	\$11.30
114-862	2175F	Cutter with Safety Clip	\$13.15

PLATO Flush-Cutting Shears

**Unique Return Spring
is Hidden in Handles**

- Lifetime MFG warranty

Narrow cutting head provides greater access into circuit board areas with a high density of component leads. Cutting edges are precision-hardened for long life. Flush cuts lead wire diameters as large as 18 AWG. Blue, nonslip, cushioned handles give maximum operator comfort even during prolonged use. Unique return spring is hidden in handles and has a lifetime guarantee. Tool is 5" long with a 7/16" jaw blade length. Optional safety clip prevents lead wire "fly-offs".

Part No.	Model	Safety Clip	Price
115-090	170	No	\$5.20
114-853	175	Yes	\$8.40
114-852	170SD	No	\$9.70

PLATO Flush-Cutting Shears

- Lifetime MFG warranty

Cuts round and flat cable, coax, harnesses, nickel, Kovar and other wire with a clean shearing cut that reduces cable cut-end distortion. And it is lightweight, only 2.5 ounces (71g), significantly reducing operator fatigue. It is 5.82" (148mm) in length.

Part No.	Model	Price
114-854	1755	\$12.65

Xcelite

Micro Series Flush Cutting Shears

Better Cuts with Half the Effort

- Cuts soft copper wire up to 20 AWG

High quality carbon steel shears feature thin profile heads that allow for better access and maneuverability. Precision ground cutting edges slightly bypass each other, slicing cleanly through the wire. Shear type cutters reduce mechanical shock and require half the squeezing force of conventional (drop forged) cutters. Cutters are available with an optional safety clip (to prevent flying lead ends) and static-dissipative (10⁵ ohms/sq.) grips. Overall length 5".

Part No.	Model	Description	Price
114-850	170M	Micro Series Cutting Shears	\$6.20
114-855	175M	Shear Cutter/Safety Clip	\$7.40
405-998	170D	Shear Cutter / ESD-Safe Grips	\$5.95

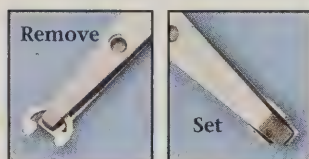


JONARD

C-Clip Remover/Setter

- Removes clips easily
- Springs hold clips

One end of tool has a hook with leaf spring tension for removing clip, other end has leaf spring for holding clip in position to insert. Narrow shape permits use in confined places.



Part No.	Description	Price
849-600	C-Clip Remover/Setter	\$12.25

Hard-Wire Cutter

- Cuts 2mm hard-wire

Cushion gripped handles and compound action.

Part No.	Description	Price
803-790	Hard-Wire Cutter 6-3/4"	\$35.95

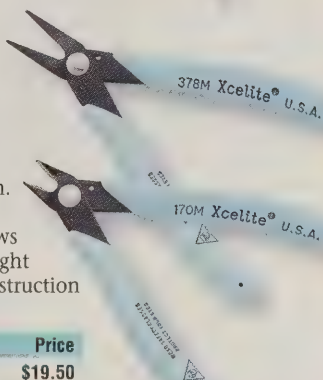


Xcelite

Shearcutter/Plier Set

Set contains two of the most popular pliers for electronic assembly and production. General purpose flush-cutter accommodates most leads. Needle-nose plier has serrated jaws and a thin profile and long reach to access tight spaces. Both feature quality carbon-steel construction and cushion grips.

Part No.	Description	Price
191-743	Shearcutter/Plier Set, 2pc.	\$19.50



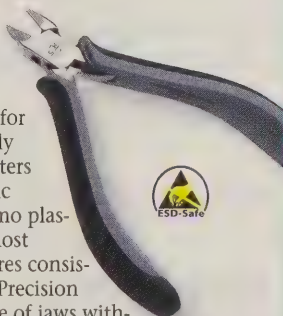
C.K.

Senso Plus Tungsten Carbide Cutters

- Carbide edge cutters outlast regular cutters many times over
- Not for soft materials

Senso Plus cutters with Tungsten Carbide edges for the really hard work. The perfect shape. Scientifically designed with your hand in mind. High-quality cutters (made in Germany) designed for precision electronic work. ESD Safe, soft, comfortable and slip-free thermo plastic grips give you fatigue-free, safe control for the most exacting work. Spot welded double leaf spring ensures consistent functioning for a lifetime of top performance. Precision box joint provides smooth action for exact guidance of jaws without the need for re-adjustment. Mirror polishing reduces risks of corrosion, chrome flaking, and stays clean. Cutting edges are induction hardened to maintain cutting ease and ensure long life.

Part No.	Model	Description	AWG	Price
424-042	3779D	Side cutter 5"	22 Piano 18 Hard 16 Nickel	\$147.80
424-043	3760DF	Angled flush cutter 4-3/4"	22 Piano 18 Hard 16 Nickel	\$178.56
424-044	3787DF	Tapered head side cutter 5"	22 Piano 18 Hard 16 Nickel	\$164.26



XURON CORP.

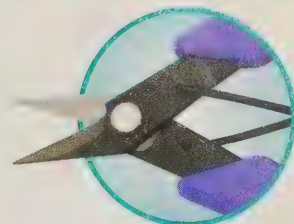


Model 9180 Kevlar® Fiber Cutter

- Serrated blade keeps fibers in place for precise cutting

These cutters are specifically designed to cut Kevlar® and other Aramid fibers used for fiber optic cables. Uniquely designed serrated edge grabs the fibers as you cut, and prevents them from slipping forward. Blades are heat treated to a Rockwell Hardness of 57-59, and feature an ultra durable plasma spray coating to ensure long tool life.

Part No.	Model	Description	Price
408-455	9180	Kevlar Fiber Cutter	\$21.50

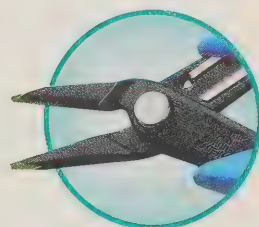


XURON CORP.

Xuro Grip™ Thin Profile Long Nose Pliers

Precision long nose with ultra-sensitive "feel." Thin profile, designed to reach into confined spaces. Comfortable soft molded contoured handles, and return spring. Length 5-1/2". Available with smooth or serrated jaws.

Part No.	Model	Description	Price
114-607	485	Smooth Jaws	\$10.10
114-609	485S	Serrated Jaws	\$10.10



XURON CORP.

Micro-Pneumatic™ Cutter

- Requires shop air

Size and shape allow the tool to be held in the operator's hand for extended periods without discomfort. Easily actuated by either thumb or forefinger, the cutter easily adapts to right or left-handed use. Slim cutter head design provides excellent maneuverability and access in restricted areas. Quiet (<60 dbA) and very lightweight (<6 oz). Easily replaceable cutter heads are treated with a non-glaring finish for excellent contrast with the work surface and reduced eye strain. Heat treated to a Rockwell hardness of 58-59C. High carbon steel blades are rated for soft copper wire up to 14 AWG and are suitable for cutting a variety of other materials, including plastics. Requires a dry, unlubricated shop air supply of 50 psi. Available with or without lead catcher to prevent flying lead ends.

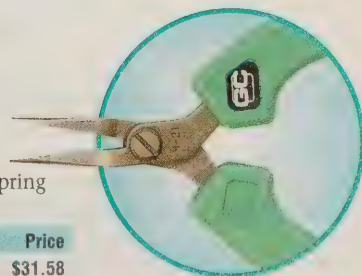
Part No.	Model	Description	Lead Retainer	Price
114-919	590	Pneumatic Cutter	N	\$150.70
114-920	590F	Pneumatic Cutter	Y	\$153.00
115-091	P40230	Repl. Cutter Head	N	\$23.05
115-092	P40230F	Repl. Cutter Head	Y	\$27.10



Palm-Grip Miniature Needle Nose Plier

Needle nose with smooth jaws, 13/16" long. Length 4". Features round spring loaded handle for quick response.

Part No.	Model	Description	Price
114-537	12-216	Needle Nose	\$31.58





JONARD Telecom Pliers

Quality pliers are designed in strict accordance with Bell specifications. Vinyl comfort-grip handles.

759-026 Diagonal Cutting Pliers feature tapered nose with standard-bevel knives. 0.030 and 0.045" skinning holes and crusher. Two V-shaped stripping notches. 7" OAL. Red.

759-027 Long-nose Pliers feature side-cutter, crushing slot, 0.030" stripping hole and thin knurled nose to facilitate handling wire at terminals. 7" OAL. Yellow.

759-028 Connector Crimping Pliers are designed to press UG, UR and UY connectors. Built in side-cutter. Special stop behind cut-out prevents damage to connectors. 6" OAL.

419-752 9" Lineman's B Sidecutting Pliers are designed for heavy use. High leverage for cutting bolts, nails and many gauges of wire including high-strength wire. Cushion-grip comfortable red handles.

419-753 6-5/8" Longnose G Pliers have jaws designed to close 700, 701 and 702 style connectors. Contains knurled jaws to facilitate gripping wire. Cushion-grip red handles.

419-754 7" Longnose D Pliers are for general use looping, bending and cutting. Grips small wires and parts and reaches into tight spaces. Jaws are knurled, serrated and have side cutting blades. Cushion-grip yellow handles.

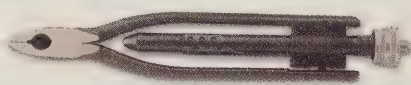
Part No.	Description	Price
759-026	Diagonal Cutting Pliers	\$18.30
759-027	Long Nose Pliers	\$25.45
759-028	Connector Crimping Pliers	\$16.30
419-752	Lineman's B Sidecutting Pliers, 9"	\$20.35
419-753	Longnose G Pliers, 6-5/8"	\$16.60
419-754	Longnose D Pliers, 7"	\$16.70



4 in 1 Electrician's Pliers

Provides four functions in one quality tool: Powerful serrated gripping nose. Wire cutter factory tested for aluminum, copper, even hard wire. Stripping holes for 10, 12 and 14-gauge wire. Built in crimp die. 6-1/4" overall length.

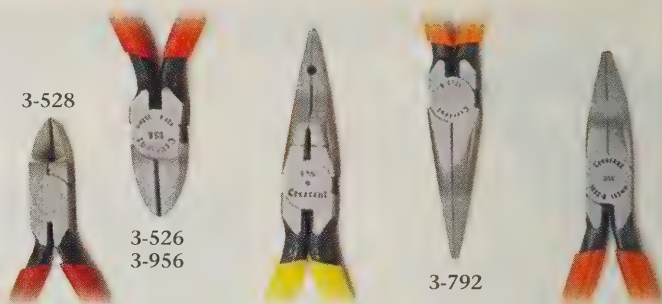
Part No.	Description	Price
232-009	4-in-1 Electrician's Pliers	\$34.95



Safety Wire Twister with Auto Return

Tapered nose twister with speedy auto return enables the operator to quickly and effectively attach safety wire in accordance with the strictest standards.

Part No.	Description	Price
71-006	6" Safety Wire Twister	\$32.10
71-009	9" Safety Wire Twister with Auto Return	\$32.10



Crescent Telecom Pliers

■ Bell spec'd designations ■ Regular and oxide tipped

Diagonal cutters in 5 and 6" lengths, long nose with and without cutters, and short nose for close work on blocks. Each version available with or without aluminum oxide coating. Coating helps prevent accidental shorting out of adjacent terminals and subsequent interruption of service.

Non-Coated Style

Part No.	Bell Type	Description	Size	Price
3-528	BV	Diagonal Cutter	5"	\$19.95
3-526	D6	Diagonal Cutter	6"	\$19.95
3-222	B SN	Short Nose	6"	\$15.50

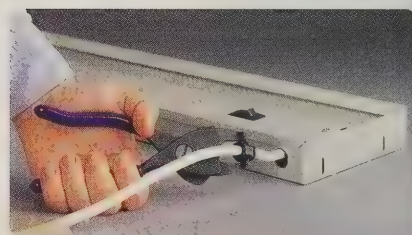
Oxide Coated Style

Part No.	Bell Type	Description	Size	Price
3-956	E6	Diagonal Cutter	6"	\$28.00
3-258	L2	Long Nose w/Cutter	6-1/2"	\$32.50
3-792	D LN	Long Nose w/o Cutter	6-1/2"	\$22.50

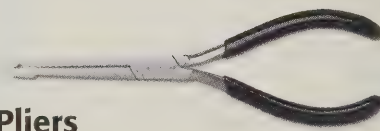


Strain Relief Bushing Pliers

Adjustable plier fits all strain relief bushings for chassis ports up to 7/8".



Part No.	Description	Price
114-865	Strain Relief Bushing Pliers	\$61.20



Multi-Nut Pliers

Specially designed pliers for gripping small fasteners. Holds nuts while tightening bolts. Narrow plier neck reaches into tight places. Machined surfaces hold or turn an infinite variety of small nuts or bolts. Use straight on or perpendicular to fastener. Vinyl grips. 7-1/2" overall length.

Part No.	Description	Price
418-949	Multi-nut Pliers	\$15.25



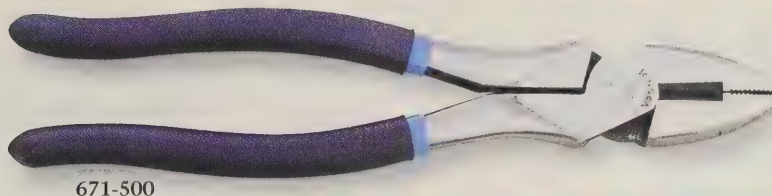


JENSEN®
Lifetime Guarantee

Electrician's Pliers

Jensen Quality Pliers Meet or Exceed the Best Brands on the Market for Durability, Comfort and Value

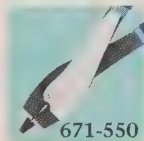
Each plier is tested to exacting ANSI specifications to ensure lasting quality. Constructed of high-quality 1060 alloy steel. 60RC nominal cutting edge hardness. Hand honed, precision-aligned cutting surfaces. Diamond-serrated plier jaws for high gripping power. Textured matte non-slip grip*. Jaws rated for ACSR, bolts, nails and most hardened wire. 671-510 features built-in crimping die for insulated and non-insulated terminals. 671-550 for crimping insulated and non-insulated splices, disconnects and wire joints, 22-14 AWG. 671-560 with 4/0 aluminum and 2/0 copper capacity. 1/2" opening.



671-500



671-510



671-550



671-540



671-560

Part No.	Description	Size	Price
671-500	Lineman's Pliers, NE-style	9"	\$22.40
671-510	Lineman's Pliers, w/Crimp Die	9"	\$30.55
671-540	Diagonal Cutter	8"	\$18.30
671-550	Crimping Pliers, 22-14 AWG	9"	\$26.45
671-560	Hi Leverage Cable Cutter	9-1/2"	\$21.35

* Not electrically insulated - Do not use on live circuits.

JENSEN®
Lifetime Guarantee

4-Piece Maintenance Plier Set

The Right Pliers for the Most Commonly Encountered Jobs



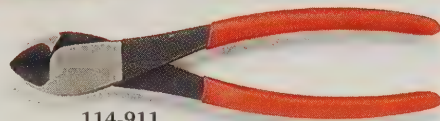
Quality plier set contains 10" groove-joint, 6" slip-joint, 6" long-nose and 6" diagonal cutter. High quality alloy steel construction. Meets all applicable ANSI specifications. Textured matte non-slip grips*. Includes rugged vinyl roll pouch.

Part No.	Description	Price
671-400	Maintenance Plier Set, 4pc	\$50.95

*Not electrically insulated - Do not use on live circuits.



185-237



114-911

Crescent

Heavy-Duty Lineman's Pliers

Streamlined head design allows easy removal and insertion into belt loops. Electronically induction-hardened, forged alloy steel. Non-slip cushion grip handles. 185-237 high-leverage lineman's pliers are ideal for utility work, wiring and electrical equipment installation. Built-in 3/4" side cutter. 114-911 diagonal cutters are designed for heavy-duty wire cutting applications. Polished head. 25/32" cut length.

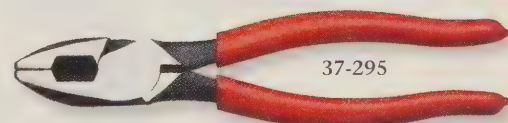
Part No.	Length	Description	Price
185-237	9-1/4"	Linemans Pliers	\$23.95
114-911	8"	Diagonal Cutter	\$26.10



H.K. Porter® High-Leverage Cable Cutter

Capacity of 4/0 aluminum and 2/0 copper cable. Not designed to cut steel or ACSR cable. Overall length 9-1/4".

Part No.	Description	Price
181-982	High-Leverage Cable Cutter	\$22.50



37-295



37-280

KLEIN TOOLS

2000 Series Ultra-Heavy-Duty Lineman's Cutting Pliers

Lineman's Pliers 46% greater cutting and gripping advantage. Hardened side cutter cuts ACSR, bolts, nails, and most hardened wire. High leverage diagonal cutter powerful leverage action has 36% greater cutting advantage. Makes cutting ACSR, bolts, nails, and most hardened wire easier. Cushioned grips. Cut length 13/16".

Part No.	Description	Length	Price
37-295	High-Leverage Side-Cutting Pliers	9-1/4"	\$45.38
37-280	High-Leverage Diagonal-Cutting Pliers	8"	\$32.35



JENSEN®
Lifetime Guarantee

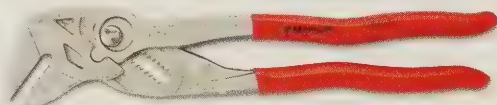


Groove Joint Pliers

Precision forged tongue and groove design for easy adjustment and superior strength.

Part No.	Description	Length	Capacity	Price
1-008	Groove Joint Pliers	5"	1/2"	\$13.50
1-006	Groove Joint Pliers	7"	1-1/4"	\$11.75
1-010	Groove Joint Pliers	10"	1-7/8"	\$13.50

KNIPLEX



Plier Wrenches

Self-locking tool for gripping, holding and bending. Smooth parallel jaws avoid damage to soft fittings. Unique cam-action ratchet adjusts easily with the touch of a button and provides high leverage. Lever ratio greater than 10-1 for strong gripping. Highest quality chrome vanadium steel.

Part No.	Description	Length	Capacity	Price
232-001	Plier Wrench	7"	1-3/8"	\$58.75
232-002	Plier Wrench	10"	1-5/8"	\$66.50
232-003	Plier Wrench	12"	2"	\$82.25

JENSEN®
Lifetime Guarantee



Slip Joint Pliers

Special drop forged steel, machined and hardened for durability. Cushion grip handle and wire cutter.

Part No.	Description	Length	Price
66-375	Slip Joint Pliers	5"	\$9.40
66-380	Slip Joint Pliers	6-1/2"	\$10.05
66-018	Slip Joint Pliers	8"	\$11.60

Crescent

5-Piece Tool Kit

Includes 6" long plier; 8" groove joint plier; 6" slip-joint; 6" diagonal cutter; and 8" adjustable wrench. Tools are drop forged of the highest quality alloy steel, chrome plated, polished, and have protective plastic coated handles. Comes with roll-up vinyl tool pouch.

Part No.	Description	Price
117-747	5-pc. Tool Kit	\$67.30



KNIPLEX



Cobra® Waterpump Pliers

New generation pliers feature push-button jaw action for fast and firm single-hand adjustment directly on the workpiece. Self-gripping on pipes and fasteners. Pinch guard protects operator's fingers. Jaw design eliminates fastener burring. Constructed of oil hardened chrome-vanadium steel.

Part No.	Description	Length	Price
232-005	Cobra Pliers	7"	\$27.95
232-006	Cobra Pliers	10"	\$31.75
232-007	Cobra Pliers	12"	\$43.95

C.K.



Utility Pliers (Waterpump)

Drop forged chrome vanadium steel. Parallelogram shaped jaw. Box joint with steel rivet provides superb strength.

Part No.	Description	Length	Capacity	Price
194-958	Utility Pliers	7"	1/8" — 1"	\$24.79
130-524	Utility Pliers	10"	3/8" — 1-1/4"	\$26.03

MILBAR®



Soft Jaw A-N Connector Pliers

■ Replaceable jaw inserts

4 position capacity from 3/4" to 2-1/2". Ideal for circular A-N electrical connectors and fittings. Use anywhere you don't want to mar or damage surfaces. Cushion grips for comfort.

Part No.	Description	Price
71-045	Soft Jaw Pliers	\$26.55
71-046	Replacement Inserts (pair)	\$4.55

JENSEN®
Lifetime Guarantee

Long-reach Plier & Cutter Set

Indispensible for working in close quarters on electronic equipment, these quality pliers feature extended handles for improved access. High quality alloy steel construction and dual-layer, textured matte non-slip grips for comfort. Meets all applicable ANSI specifications. Plier set includes 6" chain-nose plier w/cutter; 5-1/2" oval-head semi-flush cutter; 7" non-serrated needle-nose plier; 6" flat-nose plier; 5-1/2" thin-head flush cutter; 7" 45-degree bent needle-nose plier and fitted carry case.

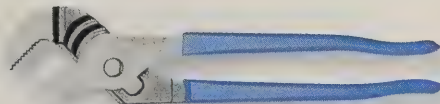
Part No.	Description	Price
419-767	Long-reach Plier & Cutter Set, 6pc	\$101.95
419-768	Longreach Plier, Chain-nose w/Cutter, 6"	\$16.25
419-769	Longreach Cutter, Oval-head, Semi-flush, 5-1/2"	\$16.25
419-770	Longreach Plier, Needle-nose, 7"	\$16.25
419-771	Longreach Plier, Flat-nose, 6"	\$16.25
419-772	Longreach Cutter, Thin-head, Flush Cut, 5-1/2"	\$16.25
419-773	Longreach Plier, 45-degree Bent, Needle-nose, 7"	\$16.25





CHAN NEL LOCK

Tongue and Groove Pliers



These are the original tongue and groove pliers. Precision machined interlock design prevents slipping under any load - the heavier the job the greater the interlocking action. All tools are drop forged, machined out of the finest steel and come with plastic anti-slip handles. Six sizes to choose from.

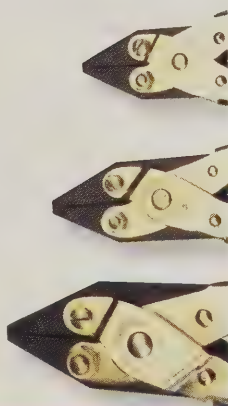
Part No.	Length	Jaw Capacity	Price
114-588	4-1/2"	1/2"	\$14.75
114-589	6-1/2"	7/8"	\$12.40
114-587	9-1/2"	1-1/2"	\$14.50
114-591	10"	2"	\$15.10
114-593	12"	2-1/4"	\$16.25
114-602	16"	4-1/4"	\$30.60

AVEN

Flat Nose Parallel Action Pliers

*Holds an Object Firmly
Even When the Job Calls
for Firm Pressure*

The unique compound joint design allows the jaws to open and close parallel to one another, which makes them ideal for holding and gripping components and manipulating wire. All pliers below have serrated jaws with a v-slot for feeding wire down the throat of the plier and holding it firmly in place. Anti-rust finish, nickel sealed handles and smooth, fully heat-treated black jaws for durability.



Part No.	Length	Jaw Length	Jaw Capacity	Price
428-475	5"	1-6/16"	1/4"	\$30.70
425-192	5-1/2"	1-3/16"	.3"	\$26.75
425-193	6"	1-1/16"	.35"	\$28.20

MILBAR

Internal/External Retaining Ring Pliers Set

For installing and removing retaining rings without damage to the ring. Works with internal and external rings from 1/4" to 2" diameter. Includes two pliers, plastic box and eight pairs interchangeable tips.



Part No.	Description	Price
114-594	Internal/External Retaining Ring Pliers Set	\$18.10

Hi-Tech Internal/External Retaining Ring Pliers Set



Converts from internal to external. Internal sizes from 1/4" (6mm) thru 1" (26mm); external sizes from 1/8" (3mm) thru 1" (26mm). Five color-coded pairs of tips: .023, .036, and .047" straight; .036 and .047" bent 90°

Part No.	Description	Price
114-539	Internal/External Retaining Ring Pliers Set	\$19.45

STANLEY

3-Piece Plier Set

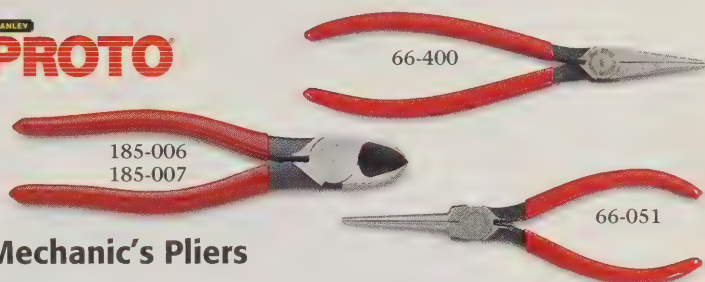
- Three most popular pliers
- Vinyl grips for comfort

Set contains long nose with side cutter, drop forged slip joint with wire cutter and drop forged diagonal cutter.



Part No.	Description	Length	Price
418-916	Plier Set, 3pc.	6"	\$12.95

PROTO



Mechanic's Pliers

- Plastisol-dipped handles

Pliers are forged steel, precision machined and polished with scored jaws. **Cutters** have semi-flush diagonal cut with induction-hardened edges.

Part No.	Description	Length	Price
66-051	Long Reach Thin Needle Nose Pliers	7"	\$16.85
66-400	Long Reach Needle Nose Pliers	8"	\$17.10
185-006	Diagonal Cutter	6"	\$16.35
185-007	Diagonal Cutter	7-3/4"	\$18.60

JENSEN

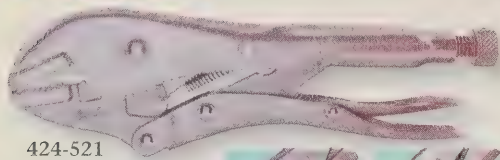
Lifetime Guarantee



Internal & External Retaining Ring Pliers

71-310, 71-320, and 114-542 feature .038" tips. Internal style from .375 to 1", external style from .5 to .875" shaft diameter. Both have return springs. 48-842 is a miniature style with .025" tips. Designed to remove friction-grip external snap-rings found in VCRs, fax machines and printers in 2-4mm sizes.

Part No.	Description	Price
71-310	Internal Style Retaining Ring Pliers	\$8.95
71-320	External Style Retaining Ring Pliers	\$8.95
114-542	Internal/External Styles Retaining Ring Pliers	\$11.40
48-842	Miniature Style Retaining Ring Pliers	\$15.10



Locking Pliers

New

Product meets ASME standard B107.24 - 2002 and B107.36 - 2002 for product specifications and maximum jaw opening capacity.

Crescent



Part No.	Description	Length	Wire Cutter	Price
424-520	Straight Jaw	7"	No	\$11.00
424-521	Straight Jaw	10"	No	\$11.90
424-522	Curved Jaw	5"	Yes	\$10.80
424-523	Curved Jaw	7"	Yes	\$11.80
424-524	Curved Jaw	10"	Yes	\$12.60
424-525	Long Nose	6"	Yes	\$12.50
424-526	Long Nose	9"	Yes	\$14.90

4-Piece Pliers Kit

Popular Tools in a Space Saving Pouch

■ Lifetime Warranty

A selection of our most popular tools contained in a heavy-duty vinyl roll pouch with elastic closure. Kit contains two semiflush cutters - a 5" round-nose and a 4-1/4" tapered round-nose, and two pliers with serrated tips - a 4" short chain-nose and a 6" chain-nose with side cutters.

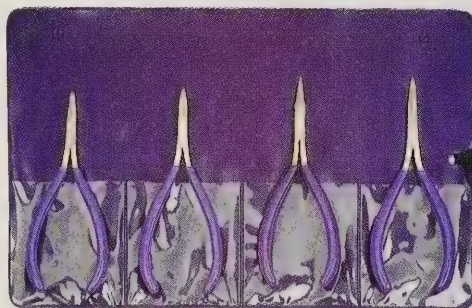
Part No.	Model	Description	Price
117-749	PKIT4	4-pc. Pliers Kit	\$58.90



4-Piece Micro Mini Plier Set

Made for the electronics industry, these pliers give you precise surgeon-like control. Box-joint construction, stainless steel, with vinyl grip handles. Length 5". Set includes the following pliers: chain-nose serrated, flat nose, needle nose, bent flat nose. Comes complete with a vinyl pouch.

Part No.	Description	Price
401-474	4-pc. Micro Mini Plier Set	\$24.70



VANTAGE™

Micro-Miniature Pliers

Ultra slim design (only 3/16 x 1/8" at hinge pin) allows use of these tools in the smallest spaces. Curved comfort-designed cushioned handles. Box joint construction. Smooth jaws. All stainless steel. Length 5".

Part No.	Description	Price
23-040	Pliers Set in Vinyl Wallet, 4pc.	\$31.70
401-478	Offset Flat Nose Micro Pliers	\$8.10
401-475	Chain Nose Micro Pliers	\$8.10
401-476	Flat Nose Pliers	\$8.10
401-477	Needle Nose Micro Pliers	\$8.10

JENSEN®
Lifetime Guarantee

by VISE-GRIP® Locking Pliers Kits

1-131 set includes the three most popular sizes; 5WR, 5" curved jaw, 6LN, 6" long nose and 7WR, 7" curved jaw in a red Cordura® Plus pouch.

1-132 miniature set includes 4LW, 4" locking wrench, 4LN, 4" long nose and 4WR, 4" curved jaw in a red Cordura® Plus pouch.

Part No.	Description	Price
1-131	Locking Pliers Kit, 3pc.	\$43.40
1-132	Miniature Locking Pliers Set, 3pc.	\$49.00



IRWIN®
Industrial Tools

Soft Grip Locking Pliers Set

■ Provide even more power because the cushioned handles make it easier to apply additional pressure

Set of three soft grip locking pliers in a durable plastic roll pouch. Set includes 10WR, 7R, and 6LN.

Part No.	Description	Price
423-310	3-pc. Soft-Grip Locking Pliers Set	\$47.95



IRWIN®
Industrial Tools

Locking Pliers

Powerful pliers that will not slip when locked. Pressure of a single hand can generate up to one ton of controlled power between jaws. Micro adjustment permits you to lock pliers with just the right amount of pressure required. Release trigger, and jaws snap open. Made of high-grade alloy steel with bright nickel-plated finish.

Part No.	Model	Type	Length	Wire Cutter	Price
191-271	7R	Straight	7"	No	\$14.55
114-529	10R	Straight	10"	No	\$15.25
131-480	4WR	Curved	4"	Yes	\$12.65
114-633	5WR	Curved	5"	Yes	\$13.85
114-668	7WR	Curved	7"	Yes	\$15.10
191-263	10WR	Curved	10"	Yes	\$16.40
131-400	4LN	Long Nose	4"	Yes	\$15.20
114-641	6LN	Long Nose	6"	Yes	\$16.25
191-808	9LN	Long Nose	9"	Yes	\$19.45
191-641	4LW	Locking Wrench	4"	Yes	\$16.30
191-585	6BN	Bent Nose	6"	Yes	\$20.95





JENSEN
Lifetime Guarantee



Break-resistant, impervious to most acids.
Fluted, bevel-edged handles for comfort.

You can count on years of use with your Jensen brand hand tools. In fact, we back them for as long as you own them.

Chrome vanadium steel blades.

Precision ground tips for accurate fit.
Black oxide finish.

Screwdrivers

Jensen screwdrivers are manufactured to precise specifications to assure top performance in your work. Fluted design handles with beveled edges for comfort. Handles are break-resistant and impervious to most acids. Blades are made

Pocket Clip Style

Part No.	Blade Style	Tip Size	Blade Length	Overall Length	Price
865-440	Slotted	3/32"	3"	5-1/4"	\$2.80
865-441	Slotted	1/8"	3"	5-1/4"	\$3.30
865-442	Phillips	#0	3"	4-1/4"	\$2.55

Regular Style Phillips

Part No.	Blade Style	Tip Size	Blade Length	Overall Length	Price
865-443	Phillips	#0	2"	4-1/2"	\$2.55
865-444	Phillips	#1	3"	6-5/8"	\$2.80
865-445	Phillips	#1	6"	9-5/8"	\$4.05
865-446	Phillips	#1	10"	13-5/8"	\$5.05
865-447	Phillips	#2	4"	8-1/2"	\$3.85
865-448	Phillips	#2	10"	14-1/2"	\$5.85
865-449	Phillips	#3	6"	10-1/2"	\$5.35

from chrome-vanadium steel and are plated for lasting durability. Tips are precision ground for an accurate fit and have a black oxide finish.

Complete range of sizes. Economically priced. These Jensen Screwdrivers are guaranteed for life. If they do not measure up to your quality requirements, return it to Jensen postpaid and we will replace it free of charge.

Regular Style Slotted

Part No.	Blade Style	Tip Size	Blade Length	Overall Length	Price
865-450	Slotted	1/8"	4"	6-1/2"	\$3.55
865-451	Slotted	1/8"	6"	8-1/2"	\$3.85
865-452	Slotted	1/8"	6"	"	\$4.05
865-453	Slotted	3/16"	3"	6-1/2"	\$3.55
865-454	Slotted	3/16"	6"	9-1/2"	\$4.35
865-455	Slotted	3/16"	8"	11-3/4"	\$4.60
865-456	Slotted	1/4"	4"	8-1/8"	\$4.05
865-457	Slotted	5/8"	6"	10-1/2"	\$4.60
865-458	Slotted	3/8"	8"	12-1/2"	\$5.60

Stubby Style

Part No.	Blade Style	Tip Size	Blade Length	Overall Length	Price
865-459	Slotted	1/4"	1-1/4"	3-1/4"	\$4.05
865-460	Phillips	#2	1-1/4"	3-1/2"	\$3.85

JENSEN
Lifetime Guarantee

Screwdriver Sets

Part No.	Description	Slotted Sizes	Phillips Sizes	Price
418-810	Phillips/Slotted Set, 12 pc.	1/4 x 1-1/4", 3/32 x 3", 3/16 x 3", 1/4 x 4", 5/16 x 6", 1/8 x 8"	#0 x 2, #2 x 1-1/4, #1 x 3, #2 x 4, #1 x 6, #1 x 10	\$42.40
418-811	Phillips/Slotted Set, 6pc.	3/32 x 3", 3/16 x 3", 1/4 x 4"	#0 x 2, #1 x 3, #2 x 4	\$16.90
418-812	Phillips Set, 5pc.	n/a	#1 x 6, #2 x 1-1/4, #2 x 4, #1 x 3, #0 x 2	\$16.40
418-813	Slotted Set, 5pc.	3/16 x 3", 1/4 x 1-1/4", 1/4 x 4", 5/16 x 6", 3/32 x 3"	n/a	\$16.90

STANLEY

11-Piece Prodriver™ Screwdriver Set

Sand Blasted and Heat-Treated Tip for Durability

- Meets ANSI performance standards
- Slip-resistant rubber grip
- Bar molded into handle for greater torque

Set includes five slotted: 1/4" x 4" stubby, 1/8" standard pocket, 3/16" x 3", 1/4" x 4" and 5/16" x 6". Five Philips: #2 stubby, #0 x 3", #1 x 3", #2 x 4", #3 x 6" and one offset combination. Comes complete with color-coded cores for easy identification.

Part No.	Model	Description	Price
425-116	62-502	11-Piece Prodriver Screwdriver Set	\$29.95

STANLEY

"Jobmaster" Screwdriver Set

- Non-slip rubber grips
- Round and square shank
- Lifetime warranty

Set contains: three Phillips drivers: #2 x 1-1/2" stubby, #1 x 3" and #2 x 4"; five slotted drivers: 1/4 x 1-1/2" stubby, 5/16 x 6", 1/4 x 4", 3/8 x 8" and 3/16 x 6"; and plastic pouch.

Part No.	Description	Price
185-667	Jobmaster Screwdriver Set, 8 pc.	\$34.70

SCREWDRIVERS



SensoPlus® Ergonomic Screwdrivers

**Soft Grip Inserts for
Improved Torque
with Less Stress**

- Dual-compound handle
- Fatigue-free, comfortable grip

Blade is composed of chrome-vanadium steel with a black, burnished tip for the ultimate screw fit. Two sets to choose from. **Part No. 412-043** includes seven screwdrivers: 5/32" x 3", 7/32" x 4", 1/4" x 6", 3/32" x 3", #0 x 2-3/8", #1 x 3-1/8", #2 x 4". **Part No. 412-279** includes five extra long screwdrivers: #1 x 12", #2 x 12", 1/8" x 10", T10 x 12", T15 x 12". Sets come complete with plastic case. Screwdrivers are also available separately.

Part No.	Description	Price
412-043	7-Piece Screwdriver Set	\$58.64
412-279	5-Piece Extra Long Screwdriver Set	\$49.70

Slotted Screwdrivers

Part No.	Blade Size	Price
412-045	3/32" x 3"	\$5.60
412-046	1/8" x 3"	\$5.65
417-284	1/8" x 10"	\$7.26
412-047	9/64" x 4"	\$6.02
412-048	5/32" x 3"	\$6.41
412-049	5/32" x 5"	\$6.71
412-050	7/32" x 4"	\$7.09
412-051	7/32" x 6"	\$8.02
412-052	7/32" x 8"	\$8.70
412-053	1/4" x 5"	\$8.70
412-054	1/4" x 6"	\$9.33
412-055	5/16" x 7"	\$11.62
412-056	25/64" x 8"	\$12.12

Phillips Screwdrivers

Part No.	Blade Size	Price
412-057	#0 x 2-3/8"	\$6.02
412-058	#1 x 3-1/8"	\$7.26
417-280	#1 x 12"	\$9.33
412-059	#2 x 4"	\$8.20
417-281	#2 x 12"	\$10.62
412-060	#3 x 6"	\$11.62

Torx Screwdrivers

Part No.	Blade Size	Price
412-065	T8 x 2-3/4"	\$7.70
412-066	T9 x 2-3/4"	\$7.70
412-067	T10 x 3-1/8"	\$8.26
417-282	T10 x 12"	\$8.26
412-068	T15 x 3-1/8"	\$8.33
417-283	T15 x 12"	\$8.33
412-069	T20 x 3-1/2"	\$8.89
412-070	T25 x 3-1/2"	\$9.00
412-071	T27 x 4-1/4"	\$9.94
412-072	T30 x 4-1/4"	\$10.44
412-073	T40 x 4-3/4"	\$12.49



Slotted Screwdrivers Regular Style

Part No.	Blade Size	Price
115-310	1/8" x 3"	\$3.36
115-316	1/8" x 6"	\$4.47
115-317	1/8" x 8"	\$4.73
115-311	5/32" x 4"	\$4.23
115-312	5/32" x 5"	\$4.23
115-315	5/32" x 10"	\$5.54
115-254	3/8" x 10"	\$14.67
115-313	3/16" x 6"	\$5.91
115-314	3/16" x 8"	\$6.45
115-256	5/16" x 6"	\$8.89
115-257	11/32" x 8"	\$10.62
115-270	1/4" x 1", Stubby	\$5.47
115-271	5/16" x 1", Stubby	\$5.60

High-Quality Screwdrivers with Ergonomic Handle

**Fully Hardened and
Tempered for Maximum
Turning Power**

- Handle injection molded to blade for extra strength
- Chrome-vanadium steel blade
- Hardened, non-peel tip

Phillips Screwdrivers Regular Style

Part No.	Blade Size	Price
115-259	#0 x 2-1/2"	\$3.92
115-260	#1 x 3"	\$5.71
115-264	#1 x 6"	\$6.28
115-318	#1 x 10"	\$9.33
115-261	#2 x 4"	\$7.32
115-265	#2 x 6"	\$7.89
115-319	#2 x 10"	\$13.10
115-262	#3 x 6"	\$10.20
115-263	#4 x 8"	\$13.17
115-272	#1 x 1", Stubby	\$5.10
115-273	#2 x 1", Stubby	\$5.47

Pozidriv/Supadriv Screwdrivers

Part No.	Blade Size	Price
115-266	#0 x 2-1/2"	\$4.91
115-267	#1 x 3"	\$5.84
115-268	#2 x 4"	\$8.20

Static-Dissipative Screwdriver Sets



Anti-Peel and Hardened Blades

- Surface resistivity of 10⁵ ohms
- Oil and acid resistant

Part No. 403-116 includes six screwdrivers: 1/8" x 3", 1/8" x 4", 3/16" x 5", #0 x 2-1/2", #1 x 3" and #2 x 4". **Part No. 418-608** includes six extra long screwdrivers: 3/16" x 10", #1 x 12", #2 x 12", T8 x 8", T10 x 12", T15 x 12". Screwdrivers are also available separately.

Part No.	Description	Price
403-116	6-Pc. Static-Safe Screwdriver Set	\$28.14
418-608	6-Pc. Static-Safe, Extra Long Screwdriver Set	\$57.09

Phillips Screwdrivers

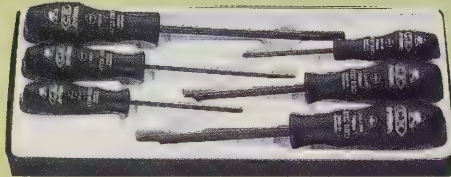
Part No.	Blade Size	Price
403-119	#0 x 2-1/2"	\$3.12
403-118	#1 x 3"	\$3.86
418-610	#1 x 12"	\$5.28
403-117	#2 x 4"	\$5.28
418-611	#2 x 12"	\$8.70

Slotted Screwdrivers

Part No.	Blade Size	Price
403-122	1/8" x 3"	\$2.73
403-121	1/8" x 4"	\$4.67
403-120	3/16" x 5"	\$3.79
418-609	3/16" x 10"	\$4.67

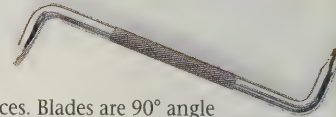
Torx Screwdrivers

Part No.	Blade Size	Price
418-612	T8 x 8"	\$10.44
418-613	T10 x 12"	\$13.73
418-614	T15 x 12"	\$13.91



Offset Screwdrivers

For use in tight spaces. Blades are 90° angle to handle. Made of forged steel.



For Slotted Screws

Part No.	Blade Size	Length	Price
115-585	3/16" x .030"	3"	\$3.76
115-587	11/32" x 0.41"	5"	\$4.85

For Phillips Screws

Part No.	Blade Size	Length	Price
115-504	#1, #2	4"	\$4.93

For Slotted/Phillips Screws

Part No.	Blade Size	Length	Price
161-528	1/4", #2	5"	\$5.68



Xcelite



PRO-SERIES ESD-Safe Ergonomic Screwdrivers

Rubber Coated Dual Material Handles Feature an ESD-Safe Hard Plastic Core to Protect Static Sensitive Components



- Ergonomic handle designed to sustain high torque
- Thumb bolster allows for added downward force
- Durable chrome vanadium steel shaft
- Black oxide tip for superior screw fit

Two sets to choose from: Part No. 417-293 includes five screwdrivers: 1/8" x 4", 3/16" x 6", 1/4" x 4", #1 x 3", and #2 x 4". Part No. 417-294 includes seven screwdrivers: 1/8" x 4", 5/32" x 4", 3/16" x 6", 1/4" x 4", 5/16" x 6", #1 x 3", and #2 x 4". Screwdrivers are also available separately.

Screwdriver Sets

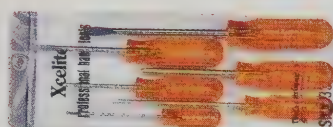
Part No.	Model	Description	Price
417-293	XPE500	5-Piece Screwdriver Set	\$24.80
417-294	XPE700	7-Piece Screwdriver Set	\$35.10

Phillips Screwdrivers

Part No.	Blade Size	Price
417-285	#1 x 3"	\$4.60
417-291	#2 x 15/16"	\$5.70
417-286	#2 x 4"	\$6.10

Slotted Screwdrivers

Part No.	Blade Size	Price
417-287	3/16" x 6"	\$5.80
417-292	1/4" x 1-1/4"	\$5.20
417-288	1/4" x 4"	\$6.00
417-289	1/8" x 4"	\$3.70
417-290	5/32" x 4"	\$3.40
417-295	5/16" x 6"	\$7.50



5-Piece Slotted Screwdriver Set

Popular Sizes in a Handy Pouch

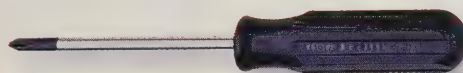
Includes five slotted screwdrivers. Blade sizes: 1/8" x 2", 5/32" x 4", 3/16" x 6", 1/4" x 4", and 5/16" x 6". Comes with vinyl pouch.

Part No.	Model	Description	Price
115-573	SDR11	5-pc. Slotted Set	\$22.90

5-Piece Phillips Screwdriver Set

Includes five Phillips screwdrivers. Blade sizes: #0 x 2", #1 x 3", #2 x 1-1/4", #2 x 4", and #3 x 6". Comes with vinyl pouch.

Part No.	Model	Description	Price
115-576	SDX22	5-pc. Phillips Set	\$26.15



Super-tru Tip Phillips Sets

Super-tru Tip for Extended Tip Life and Ultimate Control

- Nickel-chrome blade
- Black oxide tip
- Reduces damage to screw head recesses

Available in two assortments, packaged in convenient plastic pouches.

Screwdriver Sets

3-piece set includes #0 x 2", #1 x 3", and #2 x 4" screwdrivers. 5-piece set includes #0 x 2", #1 x 3", #1 x 10", #2 x 4", and #2 x 10" screwdrivers.

Part No.	Model	Description	Price
115-602	XST3	3-Piece Set	\$16.00
115-603	XST5	5-Piece Set	\$36.45

Super-tru Tip Style - Phillips

Part No.	Model	Blade Size	Price
115-597	XST100	#0 x 2"	\$5.45
115-598	XST101	#1 x 3"	\$5.25
115-599	XST1010	#1 x 10"	\$9.60
115-600	XST102	#2 x 4"	\$8.05
115-601	XST1020	#2 x 10"	\$10.50

Slotted Screwdrivers

Pocket Clip Style - Slotted

Part No.	Model	Blade Size	Price
115-535	R3322	3/32" x 2"	\$2.30
115-536	R3323	3/32" x 3"	\$2.55
115-537	R3324	3/32" x 4"	\$2.65
115-523	R181	1/8" x 2"	\$2.25
115-526	R183	1/8" x 3"	\$2.45

Regular Style - Slotted

Part No.	Model	Blade Size	Price
115-525	R182	1/8" x 2"	\$2.55
115-527	R184	1/8" x 4"	\$3.55
115-528	R186	1/8" x 6"	\$5.38
115-529	R188	1/8" x 8"	\$4.20
115-524	R1810	1/8" x 10"	\$4.50
115-542	R5323	5/32" x 3"	\$3.15
115-543	R5324	5/32" x 4"	\$3.15
115-544	R5325	5/32" x 5"	\$3.45
115-545	R5328	5/32" x 8"	\$4.20
115-531	R3163	3/16" x 3"	\$4.45
115-532	R3164	3/16" x 4"	\$4.85
115-533	R3166	3/16" x 6"	\$5.30
115-534	R3168	3/16" x 8"	\$5.40
115-530	R31610	3/16" x 10"	\$6.40
115-520	R144	1/4" x 4"	\$6.00
115-521	R146	1/4" x 6"	\$7.85
115-522	R148	1/4" x 8"	\$7.05
115-539	R5164	5/16" x 4"	\$6.75
115-540	R5166	5/16" x 6"	\$6.95
115-541	R5168	5/16" x 8"	\$7.90
115-538	R388	3/8" x 8"	\$8.90

Stubby Style - Slotted

Part No.	Model	Blade Size	Price
115-555	S3161	3/16" x 1-1/4"	\$3.85
115-551	S141	1/4" x 1-1/4"	\$4.50

Phillips Screwdrivers

Pocket Clip Style - Phillips

Part No.	Model	Blade Size	Price
115-506	P12S	#0 x 2"	\$3.00

Regular Style - Phillips

Part No.	Model	Blade Size	Price
115-588	X100	#0 x 2"	\$3.70
115-589	X101	#1 x 3"	\$4.10
115-595	X108	#1 x 6"	\$7.05
115-590	X1010	#1 x 10"	\$7.50
115-591	X102	#2 x 4"	\$7.30
115-592	X1020	#2 x 10"	\$7.75
115-593	X103	#3 x 6"	\$8.20

Stubby Style - Phillips

Part No.	Model	Blade Size	Price
115-578	SX101	#1 x 1-7/16"	\$4.85
3-073	SX102	#1 x 1-5/16"	\$5.10

"99" Series

- Space saver in your tool box
- Quick and easy blade identification

"Interchangeable" is the key word in describing Xcelite's "99" Series tools. Engineers and technicians prefer these tools because:

- They can be selected to exactly match the work being done, at the lowest cost with minimum size and weight
- Tool replacement is quick and economical, as only the blades need be replaced when worn out
- Handle and extension versatility (large, small, short, long, "T" or ratchet) is extended to every blade.

All blades are high carbon steel. Handles feature a patented spring device that holds blades firmly yet permits quick, easy insertion and removal. Blade lengths range from 4-1/2" - 5-1/2" long.



Handles

Part No.	Description	Price
115-448	Junior	\$4.10
115-443	Regular	\$3.45
3-611	Regular w/Ratchet	\$28.85
115-453	Stubby	\$4.00
115-457	Tee	\$4.95
115-458	Tee w/Ratchet	\$29.20

Hex Driver Blades 4" Long

Part No.	Model	Size	Price
116-136	9920	.050"	\$3.75
116-138	9921	1/16"	\$3.75
116-140	9922	5/64"	\$3.80
116-142	9923	3/32"	\$3.75
116-169	99764	7/64"	\$3.80
116-144	9924	1/8"	\$3.80
116-175	99964	9/64"	\$3.80
116-146	9925	5/32"	\$3.80
116-148	9926	3/16"	\$3.75
3-709	9971MM	1.27mm	\$4.90
3-711	9972MM	1.5mm	\$4.90
3-713	9973MM	2mm	\$4.80
3-715	9974MM	2.5mm	\$4.90
3-717	9975MM	3mm	\$4.90
3-719	9976MM	4mm	\$4.90
3-721	9977MM	5mm	\$4.90

Nutdriver Blades 3-5/8" Long

Part No.	Model	Size	Price
115-958	996	3/16"	\$4.00
115-960	997	7/32"	\$4.00
115-962	998	1/4"	\$4.00
115-963	998M	1/4" Magnetic	\$5.95
115-965	999	9/32"	\$4.00
115-946	9910	5/16"	\$4.00
115-949	9911	11/32"	\$4.00
115-951	9912	3/8"	\$4.00
115-952	9914	7/16"	\$5.20
115-953	9916	1/2"	\$5.20
115-955	994MM	4mm	\$4.45
115-954	994.5MM	4.5mm	\$4.45
115-957	995MM	5mm	\$4.45
115-956	995.5MM	5.5mm	\$4.45
115-959	996MM	6mm	\$4.45
115-961	997MM	7mm	\$4.45
115-964	998MM	8mm	\$4.45
115-966	99-9MM	9mm	\$6.05
115-948	9910MM	10mm	\$6.00
115-950	9911MM	11mm	\$5.95

Extensions

Part No.	Model	Length	Price
115-968	99X5	4"	\$5.35
115-967	99X10	7"	\$5.75

Ballpoint Hex Driver Blades 4" Long

Part No.	Model	Size	Price
116-137	9920BP	.050"	\$7.45
116-139	9921BP	1/16"	\$6.25
116-141	9922BP	5/64"	\$6.25
116-143	9923BP	3/32"	\$6.25
116-170	99764BP	7/64"	\$6.25
116-145	9924BP	1/8"	\$6.25
116-176	99964BP	9/64"	\$6.25
116-147	9925BP	5/32"	\$6.25
116-149	9926BP	3/16"	\$6.25

Screwdriver Blades 3-7/8" Long

Part No.	Model	Description	Price
115-446	99125	Slotted 1/8"	\$4.30
115-460	99811	Slotted 3/16"	\$4.30
115-450	99250	Slotted 1/4"	\$4.30
115-455	99312	Slotted 5/16"	\$4.30
115-461	99820	Phillips #0	\$4.30
115-462	99821	Phillips #1	\$4.30
115-463	99822	Phillips #2	\$4.30

Torx® Blades



Part No.	Model	Size	Price
115-459	996XTD	T6	\$5.95
115-467	998XTD	T8	\$5.65
115-445	9910XTD	T10	\$4.35
115-447	9915XTD	T15	\$4.35
115-449	9920XTD	T20	\$4.35
115-451	9925XTD	T25	\$4.35
115-452	9927XTD	T27	\$5.50
115-454	9930XTD	T30	\$5.55

Reamer Blade



Part No.	Model	Size	Price
127-691	9938	1/8 to 3/8"	\$10.05

Pozidriv Blades



Part No.	Model	Size	Price
115-464	99831	#1	\$7.45
115-465	99-83-2	#2	\$7.45

Scrulox Blades



Part No.	Model	Size	Price
3-403	99SL3	#3	\$5.25



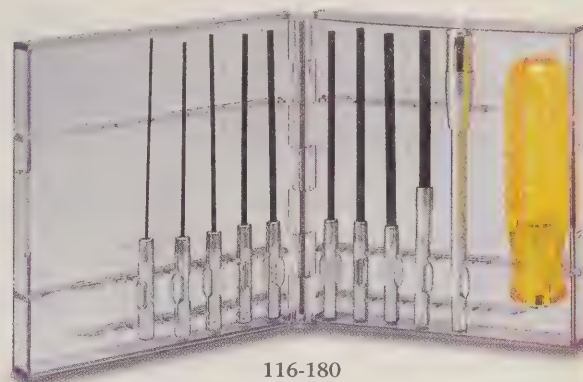
Xcelite

99MP Tool Kit

- Contains most used "99" series tools

An excellent supplementary item for your general purpose tool kit. Kit includes regular handle; "T" handle; nine nutdriver blades 3/16 through 1/2"; 1/4" magnetic nutdriver blade; nine Allen-hex blades .050 through 3/16"; nine Bristol spline blades .048 through .183"; four slotted screwdriver blades; three Phillips screwdriver blades #0, 1 and 2; reamer; and a 4" extension. Furnished in a roll pouch.

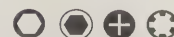
Part No.	Model	Description	Price
117-715	99MP	99MP Fastener Tool Kit, 39 pc.	\$193.75
173-608	—	Roll Pouch only	\$25.10



Xcelite

116-180

Inch/Metric Hex & Nutdriver Sets



- Inch or metric
- All sets include case/bench stand

Regular-End Inch Hexdriver 11-Piece Set - nine regular-end hex blades: 0.050", 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16"; 4" extension blade; 4" regular handle.

Ballpoint Inch Hexdriver 11-Piece Set - nine ball-end hex blades: 0.050", 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16"; 4" extension blade; 4" regular handle.

Regular-End Metric Hexdriver 9-Piece Set - seven regular-end hex blades: 1.27, 1.5, 2, 2.5, 3, 4, 5mm; 4" extension blade; 4" regular handle.

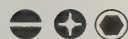
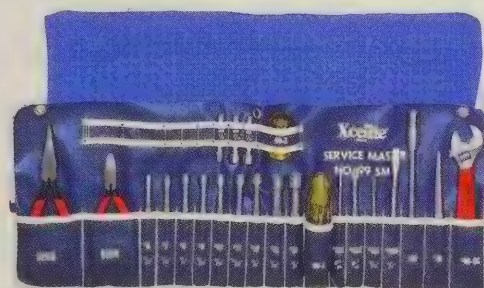
Ballpoint Metric Hexdriver 9-Piece Set - nine spline blades: 1.27, 1.5, 2, 2.5, 3, 4, 5mm; 4" extension blade; 4" regular handle.

Inch Nutdriver 13-Piece Set - four screwdriver blades: 3/16, 1/4", #1 and #2; seven nutdriver blades - 3/16, 7/32, 1/4, 9/32, 5/16, 11/32" and 3/8: 4" extension blade; 4" regular handle.

Metric Nutdriver 12-Piece Set - ten blades: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11mm; 4" extension blade; 4" regular handle.

Bristol Spline Blade 11-Piece Set - nine spline blades: .048-6, .060-6, .069-4, .072-6, .076-4, .096-6, .111-6, .145-6, .183-6; 4" extension blade; 4" handle.

Part No.	Model	Description	Price
116-180	99PS40	Regular End Inch Hexdriver Set	\$41.75
3-060	99PS40BP	Ballpoint Inch Hexdriver Set	\$64.55
3-107	99PS41MM	Regular End Metric Hexdriver Set	\$42.90
3-061	99PS41MMBP	Ballpoint Metric Hexdriver Set	\$52.65
115-470	99PS50	Inch Nutdriver Set	\$53.30
115-971	99PS51MM	Metric Nutdriver Set	\$57.35
3-110	99PS60	Bristol Spline Blade Set	\$45.35

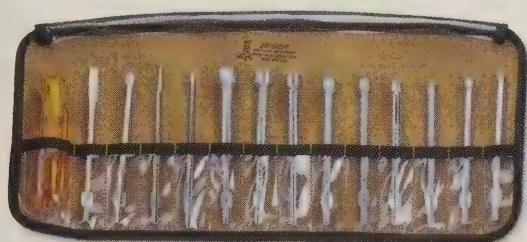


Xcelite

99SM Service Master Kit

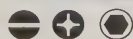
Weighs only 2-3/4 lbs. and can easily be carried in your tool box or stored in a workbench drawer. Kit includes a 6" thin-pattern adjustable wrench, regular handle, stubby handle, nine nutdriver blades 3/16 to 1/2", three stubby nutdrivers 1/4, 5/16 and 3/8", two Phillips screwdriver blades, two slotted screwdriver blades, one reamer, a 7" extension blade, 6" long nose pliers, 5" diagonal cutters and a durable roll pouch.

Part No.	Model	Description	Price
117-717	99SM	99SM Service Master Kit, 23 pc.	\$163.00
3-757	99SMK	Roll Pouch only	\$24.10



JENSEN

Lifetime Guarantee



Nutdriver/Screwdriver Roll Pouch Kit

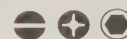
Ideal for the technician, serviceman or the home hobbyist. Contains a 4-1/8" handle; nine nutdriver blades (3/16-1/2"), Phillips screwdriver blades #1 and #2; and slotted screwdriver blades 3/16 and 1/4". Roll pouch features clear vinyl pockets and hook and loop fastener closure.

Part No.	Description	Price
1-014	Nutdriver/Screwdriver Kit, 14pc.	\$53.10



Xcelite

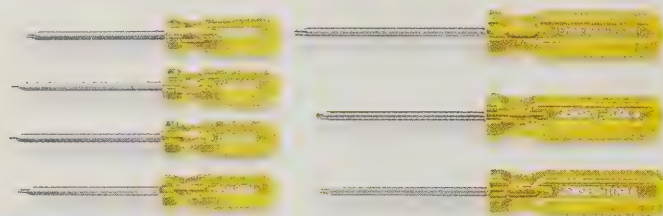
99 PR Roll Kit



Includes nine nutdriver blades 3/16 to 1/2", two slotted blades 3/16 and 1/4", two Phillips blades #1 and #2, a regular handle and a roll case.

Part No.	Description	Price
117-716	99-PR Roll Kit, 14pc.	\$76.90
191-168	Roll Pouch only	\$12.25

SCREWDRIVERS



JENSEN®
Lifetime Guarantee



Tamper-Proof Torx Screwdriver

These drivers feature the unique hole in the end to accommodate tamper-proof Torx fasteners. Fits either standard or tamper-proof Torx fasteners.

Part No.	Description	Tip Size	Blade Length	Price
1-029	Tamper-Proof Torx Driver Set, 7pc.	-	-	\$35.70
945-560	Tamper-Proof Torx Driver	TT7	2-7/8"	\$5.60
945-559	Tamper-Proof Torx Driver	TT8	2-7/8"	\$5.60
945-558	Tamper-Proof Torx Driver	TT9	2-7/8"	\$5.60
945-557	Tamper-Proof Torx Driver	TT10	3"	\$5.60
945-556	Tamper-Proof Torx Driver	TT15	3-1/8"	\$5.60
945-555	Tamper-Proof Torx Driver	TT20	3-1/4"	\$5.60
945-550	Tamper-Proof Torx Driver	TT25	3-3/4"	\$5.60



SensoPlus® Ergonomic Torx Screwdriver Set

These ergonomically designed screwdrivers feature a dual-compound handle with integrated soft grip inserts, and a rounded spinning area for ease of use and a comfortable grip. Handles also include a hanging hole. Blade is composed of chrome-vanadium steel with a black, burnished tip for the ultimate screw fit. Set includes five torx screwdrivers: T10, T15, T20, T25 and T30. Screwdrivers are also available separately.

Part No.	Description	Price
423-552	5-Piece Torx Screwdriver Set	\$50.01



Xcelite

TORX® Screwdrivers

These Torx® screwdrivers provide better fastening with positive torque control, maximum drive surface, no cam-outs, and longer driver life. Drivers come in four popular sizes with wing ends embedded in blue plastic, break-proof handles, shaped for perfect grip and balance.

Part No.	Model	Size	Blade Length	Price
115-604	XTD10	T10	3"	\$4.65
115-605	XTD15	T15	3"	\$4.65
115-606	XTD20	T20	3"	\$4.90
115-607	XTD25	T25	3"	\$4.90



Tamperproof Hex Screwdriver

■ Demanded by telecom techs

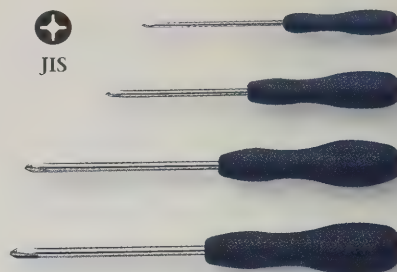
Also known as a "Booth wrench" or "SNI tool" this screwdriver features a 5/32" hex shaft with a hole drilled in the tip for use with security tamperproof screws found throughout the telecommunications industry.

Part No.	Description	Price
213-022	Tamperproof Hex Screwdriver	\$8.15

Japanese Cross Point Screwdrivers

■ Designed for fasteners in Japanese electronics

If your Phillips screwdrivers do not fit, you probably need JIS (Japanese Industry Standard) screwdrivers. Slightly larger than American counterparts and more blunt in the larger sizes. Available in #00, #0, #1, #2 sizes. An extra long (12") #2 is provided for those hard to reach screws found in many copy machines.



Part No.	Description	Size	Price
23-900	JIS Screwdriver Set, 5pc.	All	\$26.60
8-300	JIS Screwdriver	#00 x 3"	\$3.00
8-030	JIS Screwdriver	#0 x 3"	\$3.85
8-104	JIS Screwdriver	#1 x 4"	\$5.05
8-204	JIS Screwdriver	#2 x 4"	\$7.10
8-212	JIS Screwdriver	#2 x 12"	\$9.15



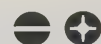
MicroFinish Screwdriver Sets

■ Patented non-slip grip on molded handle
■ Chrome vanadium/molybdenum steel blades

289-091 is a round blade mechanic's set containing slotted 4.0 x 100mm, 5.5 x 125mm, 8.0 x 150mm, Phillips #1 x 80mm, #2 x 100mm.

289-092 is a heavy-duty square blade set with bolsters and strike plates, containing slotted 5.5 x 100mm, 6.5 x 125mm, 8.0 x 150mm and Phillips #1 x 80mm, #2 x 100mm. (Germany)

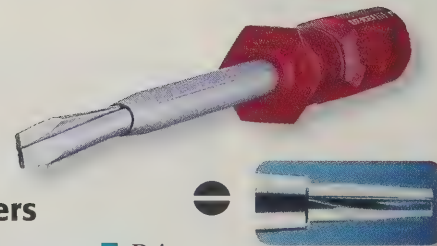
Part No.	Description	Price
289-091	Screwdriver Set, Round Blades, 5 pc.	\$35.70
289-092	Screwdriver Set, Round Blades, 5pc.	\$58.00



Quick-Wedge® Holding Screwdrivers

■ Hold ■ Set the screw ■ Drive

Double-split blade and powerful wedge-type action takes a positive grip inside the screw slot. Reaches screws in tight, hard-to-reach places, even a space not much larger than the screw head itself. Durable steel blades. Unbreakable Tenite handles and vinyl-covered tubing on shaft. (USA)



Part No.	Description	Tip Size	Tip Length	Overall Length	Price
278-004	Quick-Wedge Screwdriver Kit, 4pc.	—	—	—	\$28.00
115-172	Small - for #0 to #4 Screws	1/8"	3"	5"	\$5.55
115-186	Medium - for #4 to #7 Screws	3/16"	4"	6-1/2"	\$5.80
115-191	Large - for #6 to #12 Screws	3/16"	4"	8"	\$6.35
115-209	Large - for #6 to #12 Screws	1/4"	6"	10"	\$8.00



Xcelite

9-Piece Slotted/Phillips Compact Screwdriver Set

Includes five slotted screwdrivers: 3/32", 1/8", 5/32", 3/16", and 1/4"; three Phillips screwdrivers: #0, #1, and #2; and a 3-1/8" Torque Amplifier Handle. Overall length of drivers joined in Torque Handle is 5-1/2". Color-coded handles. Comes with a stand-up fitted plastic case.

Part No.	Model	Description	Price
115-518	PS88	9-pc. Compact Screwdriver Set	\$28.00



Triton® Extra-long Screwdriver Set

Set contains the most popular screwdrivers used in electronic service in one set. Top-quality chrome-vanadium/chrome-molybdenum fully hardened blades with black oxide finish. ESD dissipative handles. Includes slotted 3/16 x 10", Phillips #1 x 12", Phillips #2 x 12", Torx T-8 x 8", Torx T-10 x 12", Torx T-15 x 12".

Part No.	Description	Price
418-608	Extra-long Screwdriver Set, 6pc.	\$57.09



Magnetizing & Demagnetizing Screwdriver Set

Pass screwdriver blade through hole in handle to magnetize. Draw blade across top of handle to demagnetize. Full-size, comfortable handle with hex bolster for additional torque. Includes six hardened blades: 3.0, 4.5, 6mm slotted; #0, #1, #2 Phillips. Rugged canvas storage pouch.

Part No.	Description	Price
419-398	Magnetizing/Demagnetizing Screwdriver Set, 7pc	\$37.72

Torx® and Tamper-Proof Torx® Multi-Bit Magnetic Drivers

Drive any 1/4" hex shank insert bits and adapters. Driver 8" long has a powerful magnet to hold bits securely in place. Large comfortable handle stores extra bits. Choose between four models. **115-496** includes Torx bits T7, T8, T9, T10, and T15. **115-499** has Torx bits T10, T15, T20, T25, T27, and T30. **115-497** includes Tamper-Proof Torx bits T7, T8, T9, T10, and T15. **115-500** includes Tamper-Proof Torx bits T10, T15, T20, T25, T27, and T30.

Part No.	Description	Price
115-496	Driver w/ Torx Bits T7-T15	\$15.45
115-499	Driver w/ Torx Bits T10-T30	\$15.35
115-497	Driver w/ Tamper-Proof Torx Bits T7-T15	\$24.95
115-500	Driver w/ Tamper-Proof Torx Bits T10-T30	\$28.15

SCREWDRIVERS

Xcelite

Reversible Screwdriver Kit

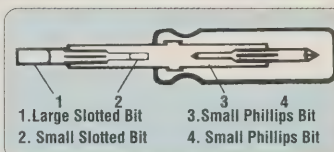


Handle and three reversible blades: #1 Phillips x 3/16" slotted; #2 Phillips x 1/4" slotted; and #3 Phillips x 5/16" slotted. Roll pouch. (USA)

Part No.	Description	Price
115-481	Screwdriver Kit, 4 pc.	\$22.50
115-548	#3 x 5/16" Blade	\$5.35
115-547	#2 x 1/4" Blade	\$6.95
115-546	#1 x 3/16" Blade	\$6.95
115-215	Additional Handle	\$5.40

4-in-1 Screwdriver

Space-saving screwdriver converts to the four most needed tips. Includes 3/16" and 1/4" slotted, and #1 and #2 Phillips bits. Change blades in seconds - pull out bit, reverse, and snap back in place. Alloy steel, heat treated for maximum strength and precision ground, Large Tenite handle. Length of blade: 3".



Part No.	Description	Price
115-162	4-in-1 Screwdriver	\$5.70

Multi-Bit Magnetic Drivers

One Tool Replaces Four Screwdrivers

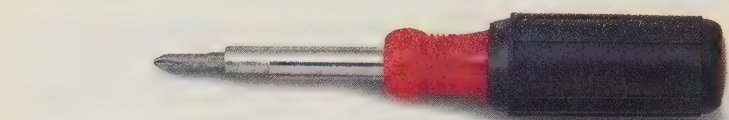
Drive any 1/4" hex shank insert bits or adapters. Magnetic force holds insert bits securely in place, yet allows bits to be changed quickly and easily. Also holds screws in place for easy starting and retrieving. Handy storage compartments in handles keep extra bits right at hand for quick changes. Rugged hexagon steel shanks with stainless-steel bit holders. The following screwdriver bits are included: Phillips #1, #2, slotted 5/32", and 1/4". Two driver lengths to choose from.

Part No.	Length	Price
115-179	7"	\$10.00
115-180	11"	\$14.75

6-in-1 Screwdriver

Space-saving screwdriver converts to the six most needed tips: four screwdrivers and two nutdrivers. Includes #1, #2 Phillips, 3/16", 5/16" slotted, 1/4" and 5/16" nutdrivers. Alloy steel and heat treated for maximum strength.

Part No.	Description	Price
401-414	6-in-1 Screwdriver	\$5.20



JENSEN®
Lifetime Guarantee

191-593
191-617

Cushion Grip 6-in-1 & 2-in-1 Screwdrivers

6-in-1 Driver has two reversible bits: Phillips #1 and #2, slotted 3/16" and 1/4". Shaft serves as 1/4 and 5/16" nutdriver. 2-in-1 Driver has one reversible bit: Phillips #1 and slotted 3/16".

Part No.	Description	Price
191-593	Cushion Grip 6-in-1 Screwdriver, 8"	\$8.65
191-617	Cushion Grip 2-in-1 Screwdriver, 3" Stubby	\$4.05

JENSEN®
Lifetime Guarantee

12-in-1 Screwdriver

Extra large 4" handle with ample storage space for the six double-ended bits supplied. There are eight 1/4" Torx drivers: T3/T4, T5/T6, T7/T8 and T10/T15; two Phillips: #0/#1, and two Japanese cross-point drivers: #0/#1.

Part No.	Description	Price
720-390	12-in-1 Screwdriver, 9"	\$25.45

JENSEN®
Lifetime Guarantee

10-in-1 Security Screwdriver

Contains the following 1/4" hex bits which store in the driver handle: Tamper Torx, TT15/TT20; Phillips #0, #1, #2; slotted 1/8, 3/16, 1/4"; tamper hex 5/32" and a #4 Line Head.

Part No.	Description	Price
720-593	10-in-1 Security screwdriver, 9"	\$26.45

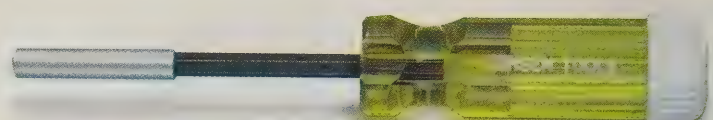
10-in-1 Security Screwdriver

- Non-magnetic bit retention
- Safe to use around magnetic media
- Removes most common security screws
- Torx®, Tamper Torx, Security Hex

JENSEN®
Lifetime Guarantee

Two sizes available: 8 and 12" overall length. Contains the following bits, 5/32" security hex, T5 and T6 Torx, TT7, TT8, TT9, TT10, TT15, TT20 and TT25 Tamper Torx.

Part No.	Description	Price
191-243	10-in-1 Security Driver, 12"	\$21.90
191-287	10-in-1 Security Driver, 8"	\$20.95



JENSEN®
Lifetime Guarantee

1/4" Hex Driver Handle

4" blade length

Part No.	Description	Price
945-014	Magnetic Screwdriver	\$7.10

JENSEN®
Lifetime Guarantee

Magnetic 5-in-1 Torx Drivers

- Tamper-proof/standard
- 3-1/2" blade length

945-400
945-401

Provides everything you need in one handy tool to tackle most Torx applications. Extra bits store in handle. Comfortable fluted handle with tempered shaft, magnetized to hold both the bit and screw for faster, easier fastening. Overall length 7-1/2". 945-400 comes with T7, T8, T9, T10 and T15 bits. 945-401 has tamper-proof bits in same sizes.

Part No.	Description	Price
945-400	Magnetic 5-in-1 Torx Driver	\$13.20
945-401	Magnetic 5-in-1 Tamper-Proof Torx Driver	\$20.35

JENSEN®
Lifetime Guarantee

5-in-1 Magnetic Drivers

Powerful stainless steel magnetic power-tip holds bits and screws securely. Large, comfortable handle stores extra bits. Includes: Phillips #1 and #2, slotted 5-7 and 8-10, Torx T15.

Part No.	Description	Price
945-744	5-in-1 Magnetic Driver w/Bits, 12"	\$10.70
945-722	5-in-1 Magnetic Driver w/Bits, 8"	\$8.69
945-740	5-in-1 Magnetic Stubby w/Bits, 3"	\$7.48

4-Way Pocket Screwdriver

- Ideal PC tool

Aluminum body screwdriver with two double ended bits, Phillips #1, slotted 5/32" and Torx T10/T15. 5-3/8" overall length.

Part No.	Description	Price
191-239	4-Way Pocket Screwdriver	\$6.65



6-in-1 Screwdriver/Magnet

- Magnet lifts over 1/2 lb.
- Telescopes to 23"

Unique patented design allows dropped fasteners to be rescued from the most difficult spots. Rubberized Quadra Drive™ handle delivers up to 4X the torque of conventional drivers. Complete with removable bit organizer. Includes six 1" bits: Phillips #1, #2; slotted 3/16, 1/4"; Torx T-15, T-20.



Part No.	Description	Price
606-829	6-in-1 Screwdriver/Magnet	\$10.70

JENSEN®
Lifetime Guarantee

Ratchet Screwdriver

Unique ratchet screwdriver can be used in-line or bend 90° for extra torque. Comes with four bits: Phillips #1 and #2; slotted 3/16 and 1/4"; and one 1/4" hex to 1/4" square adapter. Bit storage in handle.



Part No.	Description	Price
191-247	Ratchet Screwdriver	\$14.80

JENSEN® **New**
Lifetime Guarantee

10 in 1 Cushion Grip Screwdriver

This patented designed 10 in 1 cushion grip screwdriver features 8 different bits and two nut-drivers: Phillips: #1, #2, slotted: 3/16", 1/4", Torx: T15, T20, Square: #1, #2, Nutdrivers: 1/4", 5/16". Features a cushion grip handle for non-slip action.

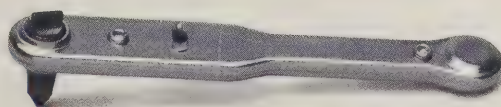


Part No.	Description	Price
424-901	10 in 1 Cushion Grip Screwdriver	\$9.50

JENSEN®
Lifetime Guarantee

Offset Ratchet Drivers

Compact offset ratchet screwdrivers allow tightening and loosening fasteners in the most restricted spaces. **185-033** has two slotted blades, 1/4 x .035" and 3/8 x .050". **185-412** has Phillips #1 and #2 blades. **185-035** has slotted blade, 1/4 x .035", one side and Phillips #2 on other side. Blades are alloy steel, hardened and tempered.



Part No.	Description	Price
185-033	Slotted Ratchet Driver	\$6.30
185-412	Phillips Ratchet Driver	\$8.95
185-035	Slotted/Phillips Ratchet Driver	\$7.99



6-in-1 Viper Driver™

- A handy tool for hard to reach areas
- Lifetime warranty

Snake driver has a unique, extendible 7" flexible locking shaft to access fasteners in hard to reach areas. Bits store conveniently on base of shaft. Includes six 1" bits: #1, #2 Phillips; 3/16, 1/4" slotted; Torx T-15, T-20.



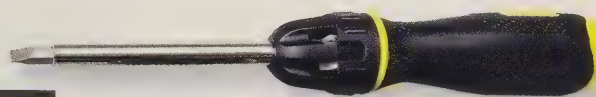
Part No.	Description	Price
606-831	6-in-1 Viper Driver	\$13.75

STANLEY

Multi-Bit Ratchet Screwdriver Set

- 3 position audible ratcheting mechanism
- Patented bit storage system for easy visibility, access and security

Unique driver features ten screwdriver bits, and a comfortable, tri-lobular, textured handle. The bits securely fit into the chrome plated, rust-resistant magnetic barrel, yet are easy to change. They are stored in a six-bit magazine and a four-bit tray that snaps onto the shaft of the screwdriver. Includes the following bits: Phillips #1, #2; slotted 1/4", 3/16"; Torx T10, T15; Pozidriv #1, #2; Square Recess #1, #2.



Part No.	Description	Price
185-687	Multi-Bit Ratchet Screwdriver Set	\$16.25



191-451



Ratcheting Screwdrivers

191-335: Magnetic ratcheting screwdriver features bit storage in handle. Reversible ratchet mechanism changes direction with the turn of a knob. Includes Phillips #1 and #2 and slotted bits 3/16 and 1/4". Accepts all 1/4" hex drive bits.

191-451: 4-in-1 reversible ratchet screwdriver complete with two double-ended reversible bits: slotted 3/16 and 1/4" and Phillips #1 and #2. Ratcheting mechanism reverses with twist of knob.

Part No.	Description	Price
191-335	Magnetic Ratcheting Screwdriver	\$10.70
191-451	4-in-1 Reversible Ratcheting Screwdriver	\$15.30



Crescent

7 Piece Dura-Driver™ Ratchet Driver Set

- In-handle bit storage compartment
- Three position, high torque ratchet
- Magnetic shaft for easy bit changing
- Ergonomic handle

Get the speed of ratchet operation with extra torque made possible by the new Dura-Driver™. 7 piece ratchet driver set includes: 6 screwdriver bits #1, #2 Phillips, 3/16", 1/4" slotted, #1, and #2 square recess.

Part No.	Model	Description	Price
423-321	SDMBRV	7 Piece Dura-Driver™ Ratchet Driver Set	\$11.20

New

52-in-1 Screwdriver with Magnetizer/Demagnetizer

Magnetize and Demagnetize the Bits Right From the Handle

52-in-1 screwdriver features 1 magnetizer/demagnetizer, 24 full size screwdrivers, 24 stubby screwdrivers, 2 full size nut drivers and 1 stubby nutdriver. 24 bits included: Phillips: #0, #1, #2, #3, Slotted: #4, #8, #10, #12, Torx: T7, T8, T9, T10, T15, T20, T25, T27, T30, T40, Square recess: 0, 1, 2, 3, Nutdrivers: 1/4", 5/16". Clutch is 5/32" and 3/16". Features include a high comfort plastic handle that is transparent to see bits while stored and the magnetizer/demagnetizer is also included on the handle. Orange top of handle can be removed for use of stubby screwdriver.

Part No.	Description	Price
424-903	52-in-1 Screwdriver with Magnetizer/Demagnetizer	\$18.00

New

Crescent

34 Piece Dura-Driver™ Power Driving Ratchet Kit

- Hidden bit storage compartment in handle
- Three position, high torque ratchet
- Magnetic shaft for easy bit changing
- Ergonomic handle

Get the speed of ratchet operation with extra torque made possible by the new Dura-Driver™. 34 piece power driving kit includes: 7 inch power nutdrivers 3/16", 1/4", 9/32", 5/16", 11/32", 3/8" and 7/16". 7 metric power nutdrivers 5mm, 6mm, 7mm, 8mm, 9mm, 10mm and 11mm. 18 screwdriver bits #1, #2, #3 Phillips, 1/4", 5/32", 3/16" slotted, #1, #2, #3 square recess, 1/4" hex drive, T6, T8, T10, T15, T20 and T25 Torx. Comes with stainless steel bit holder.

Part No.	Model	Description	Price
423-325	SDMBR2	34 Piece Dura-Driver™ Power Driving Ratchet Kit	\$25.40



1/4" Hex Drive Ratchet Sets

- Ideal for working in confined space
- Comprehensive selection

Features high-quality stainless steel miniature ratchet wrench with short 18° arc for working in close quarters. Reverse action by simply turning ratchet over. Sets include ratchet wrench, screwdriver handle, 3-1/2" extension, plus assorted bits as described below.

20-Piece Standard Set: contains twelve hex bits from .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16"; two slotted bits 1/4 and 3/8"; two Phillips drivers, #1 and #2; one 1/4" square adapter plus drivers in a molded case.

27-Piece Standard Set: contains twelve hex bits .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16"; five spline bits .060, .072, .096, 111, .145"; four slotted bits 3/16, 7/32, 1/4, 3/8"; two Phillips bits, #1 and #2; 1/4" square adapter plus drivers in a molded case.

27-Piece Standard/Metric Set: contains twelve hex bits .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4"; six metric hex bits 1.5, 2, 2.5, 3, 4, 5, 6mm; three slotted bits 3/16, 1/4, 3/8"; two Phillips bits #1 and #2; 1/4" square adapter plus drivers in a molded case.

16-Piece Ratchet Set: contains stainless steel midget ratchet, 3-3/4" long; 1/4 and 3/8" slotted head drivers; #1 and #2 Phillips head drivers; 1/4" hex to square drive adapter; and ten Allen hex drivers .050 to 5/16" in softpack pouch.

Part No.	Description	Price
90-200	Standard Ratchet Set, 20pc.	\$29.60
90-341	Standard Ratchet Set, 27pc.	\$35.40
117-685	Standard/Metric Ratchet set, 27pc.	\$34.70
90-316	Ratchet Set, 16pc.	\$18.20

90-200

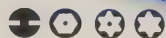
90-316

JENSEN®
Lifetime Guarantee

30-Piece Security Screwdriver Kit

- Torx®, security Torx, security hex, spanners
- Cushion grip 1/4" hex magnetic driver

Contains 26 of the most common security bits, driver, plus bit extension (non-magnetic), 1/4" hex to 1/4" square adapter and a molded plastic case. Torx bits T5, T6; Security Torx bits TT7, TT8, TT9, TT10, TT15, TT20, TT25, TT30; Security Hex bits 2.5mm, 3mm, 4mm, 5mm, 6mm, 3/32, 1/8, 9/64, 5/32, 3/16, 7/32"; Spanner bits #4, #6, #8, #10.

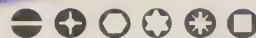


Part No.	Description	Price
191-739	Security Screwdriver Kit, 30pc.	\$52.00

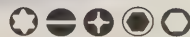
JENSEN®
Lifetime Guarantee

30-Piece Do-It-All Kit

This comprehensive kit will work with almost every type of fastener. Includes an 8" magnetic driver with cushion grip handle and the following bits: Phillips #0, #1, #2, #3; slotted 0-1, 3-4, 5-6, 8-10, 12; Allen hex 5/64, 3/32, 7/64, 1/8, 9/64"; square recess 0, 1, 2, 3; Torx T10, 15, 20, 25, 30, 40; Pozidrive® #1, #2. Also included are a 1/4" drive socket adapter and a 3 x 1/4" bit holder for use with power tools. Protective case with snap close cover.



Part No.	Description	Price
555-486	Do-It-All Kit, 30pc.	\$30.85



42-Piece Skewdriver™ Offset Driver Pro Kit

- Now includes 40 bits, same low price

Allows installing and removing fasteners in difficult-to-access areas. Removable handle can be used with offset head or with magnetic extension(s) as a standard screwdriver. Includes driver handle, offset head, 4-1/2" and 1-1/2" magnetic extensions; 1/4-hex to 1/4-square drive adapter; Phillips #0, 1, 2, 3; slotted 1/8, 3/16, 1/4, 9/32"; Torx T8, T9, T10, T15, T20, T25, T27, T30; Robertson (square) #0, 1, 2, 3; Allen hex 5/64, 7/64, 3/32, 1/8, 9/64, 5/32, 3/16", 2, 2.5, 3, 5mm; Skew sockets 3/16"/5mm, 7/32"/5.5mm, 6mm, 1/4", 9/32"/7mm, 5/16"/8mm, 3/8", 10mm.

Part No.	Description	Price
690-542	Skewdriver Pro Kit, 42pc.	\$48.65

JENSEN®
Lifetime Guarantee

35-Piece Fix-It-All Kit

- Features multi-positioning ratchet screwdriver
- 1/4" bits meet or exceed U.S. Government specs

Kit Includes multi-positioning ratchet screwdriver with storage handle, 1/4" magnetic bit holder, 1/4" square and hex male adapter, six hex bits 3/32, 1/8, 5/32, 3/16, 7/32, 1/4"; seven Torx bits T8, 10, 15, 20, 25, 27, 30; three slotted bits 1/8, 3/16, 1/4"; three Phillips bits #1, 2, 3; nine sockets 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2"; plastic carry case.

Part No.	Description	Price
191-261	Fix-It-All Kit, 35pc.	\$41.76



DURHAM

Mini Ratchet Sets

- Lifetime factory warranty on ratchets
- Short 12° ratcheting action

Spine drive ratchet produces 400 lbs. of torque to drive or remove fasteners in confined spaces. All parts are torque tested to the Fasteners Institute rigid quality standards. All sets include rugged storage box, 4-7/8 x 2-7/8 x 1-1/4".

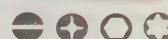
44-Piece Set: contains a 4-9/16" ratchet and extension; 3-3/4" handle; spinner knob and bit cap; 3 bit caddies; Phillips bits: #0, #1, #2, #3, #4; one Reed and Prince bit; slotted bits: 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8"; inch hex bits: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16"; metric bits: 1.5, 2, 2.5, 3, 4, 5, 6, 8mm; and a 1/4" socket adapter.

50-Piece Set: adds Torx® bits: T10, T15, T20, T25, T27, T30.

Part No.	Description	Price
117-735	Mini Ratchet Set, 44pc.	\$77.75
896-004	Mini Ratchet Set, 50pc.	\$89.25



117-735





MAGNA. 1/4" Hex Drive Power Bits & Insert Bits

Insert Bits

Phillips – 1" Long



Part No.	Screw Size	Point Size	Price
115-709	0, 1	0	\$1.20
115-710	2, 3, 4	1	\$0.48
115-711	5, 6, 8, 10	2	\$0.48

Hex Socket (Allen) – 1" Long



Part No.	Cap Screw	Set Screw	Size	Price
116-022	1	5, 6	1/16"	\$1.95
116-021	2, 3	8	5/64"	\$1.95
116-023	4, 5	10	3/32"	\$1.95
116-024	6	-	7/64"	\$1.90
116-025	-	1/4"	1/8"	\$1.95
116-026	8	-	9/64"	\$1.90
116-027	10	5/16"	5/32"	\$2.00
116-028	1/4"	3/8"	3/16"	\$1.95

Torx – 1" Long



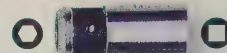
Part No.	Size	Price
115-721	T7	\$3.60
115-722	T8	\$2.20
115-723	T9	\$2.15
115-713	T10	\$1.85
115-714	T15	\$1.85
115-715	T20	\$1.85

Tamperproof Torx® 1" Long



Part No.	Size	Price
115-731	T7	\$5.10
115-732	T8	\$5.10
115-733	T9	\$5.10
115-724	T10	\$4.95
115-725	T15	\$5.00
115-726	T20	\$4.90
115-727	T25	\$4.90
115-728	T27	\$5.00

Square to Hex Adapter



1/4" square to 1/4" hex. Accepts insert bits.

Part No.	Description	Price
115-490	Adapter	\$40.65

1/4" Socket Adapter with 1/4" hex shank



Part No.	Length	Price
409-068	1"	\$2.15
408-636	2"	\$3.10
407-961	6"	\$8.40



Check out our great selection of Power Tools starting on page 316

Power Bits

Slotted Bits – 1-15/16" Long



Part No.	Screw* Size	Blade Thickness	Diameter	Price
115-740	1F-2R	.026"	.122"	\$2.25
115-742	2F-3R	.028"	.134"	\$2.05
115-743	3F-4R	.032"	.154"	\$2.05
115-744	4F-5R	.034"	.187"	\$1.40
115-745	5F-6R	.036"	.215"	\$1.75
115-746	6F-7R	.038"	.250"	\$1.40
115-747	8F-10R	.042"	.275"	\$1.65
115-741	10F-12F	.046"	.312"	\$1.85

* F - Flathead, R - Roundhead

Phillips Bits – 1-15/16" Long



Part No.	Screw Size	Point Size	Diameter	Price
115-748	2, 3, 4	1	.187"	\$0.93
115-749	5, 6, 8, 10	2	.250"	\$0.84
115-750	12, 14	3	.312"	\$1.20

Hex Socket Bits (Allen) – 1-15/16" Long



Part No.	Cap Screw	Set Screw	Hex Size	Price
116-030	1	5, 6	1/16"	\$3.50
419-715	2, 3	8	5/64"	\$3.50
116-031	4, 5	10	3/32"	\$3.50
116-032	6	-	7/64"	\$4.45
116-033	-	1/4"	1/8"	\$3.45
116-035	10	5/16"	5/32"	\$3.40
116-036	1/4"	3/8"	3/16"	\$3.45

Ballpoint Hex Bits – 3" Long



Work at extreme angles for hard-to-reach areas.

Part No.	Hex Size	Price
116-193	5/64"	\$1.90
116-194	7/32"	\$1.90
116-189	3/32"	\$1.90
116-188	3/16"	\$1.90
116-195	7/64"	\$1.90
116-192	5/32"	\$1.90
116-187	1/8"	\$1.90
116-186	1/4"	\$1.90
116-196	9/64"	\$1.90
116-191	5/16"	\$5.35

Nutsetter Magnetic – 1-5/8" Long



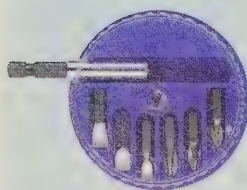
Part No.	Hex Size	Price
119-275	1/4"	\$3.70
119-276	5/16"	\$4.15
119-277	3/8"	\$4.55

Nutsetter Non-Magnetic – 1-5/8" Long

Part No.	Hex Size	Price
119-278	1/4"	\$3.50
119-279	5/16"	\$4.25
119-280	3/8"	\$4.80



For an expanded selection of bits and bit sets visit contacteast.com or jensentools.com



eazypower 7 Piece Slotted/Phillips Bit Set

1/4" hex drive insert bits come in a convenient Pic-A-Tip™ storage case. Set includes: #1, 2, 3 Phillips, 4-5, 6-8, 8-10 slotted and 2-1/8" magnetic bit holder.

Part No.	Description	Price
403-369	7-Piece Slotted/Phillips Bit Set	\$12.25

eazypower

10-Piece Flex-A-Bit™ Kit

- For Use with Drills and Power Screwdrivers
- Flexes to 90°

Flexible 7-1/2" extension is ideal for fastening applications in hard to reach places. Set includes magnetic bit holder and eight bits: #1, #2 Phillips, T15, T20 Tee*Star™ torx, 6-8, 8-10 slotted, R1 and R2 square recess.

Part No.	Description	Price
403-389	10-Pc. Flex-A-Bit™ Kit	\$34.30

Tool Tip



1" Length 1/4" Hex Drive Bit Sets



Part No.	Description	Size	Price
945-388	Phillips/Slotted Set, 8pc.	Phillips #0, #1, #2, #3; Slotted 3/16, 7/32, 1/4, 9/64"	\$5.35
945-390	Hex Set, 6pc.	1/16, 5/64, 3/32, 7/64, 1/8, 9/64"	\$8.25
289-336	Hex Set, Inch, Ball-end, 12pc.	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2"	\$27.75
170-283	Hex Set, Metric, Ball-end, 9pc.	2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10, 12mm	\$25.75
191-279	Tamper-Torx Set, 7pc.	TT7, TT8, TT9, TT10, TT15, TT20, TT25	\$19.35
945-700	Tamper-Torx Set, 7pc.	TT10, TT15, TT20, TT25, TT27, TT30, TT40	\$19.95
945-389	Torx Set, 7pc.	T7-T10, T15, T20, T25	\$10.70
647-459	Internal Linehead Set, 5pc.	ALR2, ALR3, ALR4, ALR5, ALR6	\$35.70
647-555	External Linehead Set, 5pc.	ALH2, ALH3, ALH4, ALH5, ALH6	\$32.70
647-647	Tamper Resistant Linehead Set, 4pc.	ALR3T, ALR4T, ALR5T, ALR6T	\$34.70
660-490	Clutch-Head Set, 4pc.	3/32, 1/8, 5/32, 3/16"	\$7.00
660-115	Pozi-Driv Set, 4pc.	#0, #1, #2, #3	\$5.40
660-945	Security Phillips Set, 4pc.	#1, #2, #3, #4	\$14.80
660-103	Robertson (Square) Set, 6pc.	R1, R2, R3 (2 each)	\$6.40
660-288	Torq-Set Set, 6pc.	#3, #4, #5, #6, #8, #10	\$14.25
660-264	Spanner Set, 5pc.	#4, #6, #8, #10, #12	\$16.05

Torx, is a trademark of Camcar Textron
Torq-Set, Tri-Wing, Pozi-Driv and Phillips are trademarks of Phillips Screw Co.
Robertson is a trademark of Robertson Screw Co.

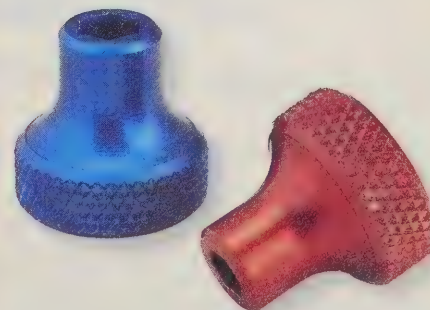
2" Length 1/4" Hex Drive Bit Sets



Part No.	Description	Size	Price
945-373	Phillips/Slotted Set, 6 pc.	Phillips #1, #2, #3; Slotted 1/8, 5/32, 1/4"	\$7.10
170-281	Hex Set, Inch, Ball-end, 12 pc.	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2"	\$34.85
289-899	Hex Set, Metric, Ball-end, 9 pc.	2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10, 12mm	\$28.65
660-230	Security Hex Set, 10 pc.	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16"	\$29.70
660-283	Tri-Wing Set, 4 pc.	#1, #2, #3, #4	\$9.20
660-270	Spanner Set, 4 pc.	#4, #6, #8, #10	\$13.69

Magnetic Close-Quarters Hex Bit Driver Set

Allows starting and driving fasteners in tight areas where conventional drivers are not suitable. Solid anodized aluminum with NEO magnet holds firmly while magnetizing inserted bit. Two-piece set includes color coded drivers for 1/4" and 5/16" hex bits. Bits sold separately.



Part No.	Description	Price
461-200	Magnetic Close-Quarters Hex Bit Driver Set 2/pc.	\$13.20



JENSEN® **New**

100 Bits in a Box

100 bits in a box features a high impact graphic box with identified bit locations. Bits include: Phillips: #0, #1, #2, #3, Pozidrive: #0, #1, #2, #3, Torx: T8, T10, T15, T20, T25, T27, T30, T40, T45, Tamperproof Torx: TT8, TT10, TT15, TT20, TT25, TT27, TT30, TT40, TT45, Hexagon Fractional: 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", Hexagon Fractional Tamperproof: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", Hexagon Metric: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 5.5mm, 6mm, 8mm, Hexagon Metric Tamperproof: 2mm, 2.5mm, 3mm, 4mm, 5mm, 5.5mm, Triwing: 1, 2, 3, 4, Torqset: 6, 8, 10, Slotted: 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8, Spanner: 4, 6, 8, 10, Clutch: 5/32", 3/16", 1/4", Square Recess: 0, 1, 2, 3, Spline: 5mm, 6mm, 8mm, Wingnuts: Magnetic Bit Holder: 1/4" Hex to 1/4" Hex, Socket Bit Holder: 1/4" Square to 1/4" Hex, Extension: 1/4" Square to 1/4" Hex, 1/4" Square to 1/4" Hex 2". For use in wrenches and cordless and variable speed drills.

Part No.	Description	Price
424-904	100 Bits in a Box	\$19.60



Security 1/4" Hex Drive Bit Set

- 2" long security type bits
- Use manually or with cordless tools

The set includes 7-1/2" flexible extension for cordless screwdrivers and drills, spanner bits #8 and #10, security Torx bits TT15 and TT20, security hex bits 5/32 and 3/16", security tri-wing bits #2 and #3, and a magnetic bit holder.

Part No.	Description	Price
660-002	Security Flex-A-Bit Set, 11pc.	\$36.95



JENSEN®

Lifetime Guarantee

191-249

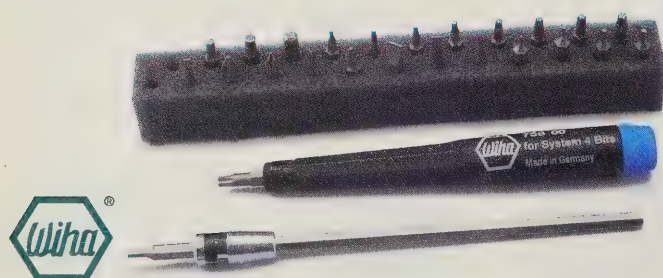
39-Piece Screwdriver Bit Sets

- 1/4" hex shank
- Inch/metric
- Includes fitted case

Inch Set includes the following styles and sizes: Phillips #1, #2, #3 and reduced #2; slotted 3-4, 6, 8, 8-10, 10-12; square recess 0, 1, 2, 3; spanner #4-6-8-10; Torx T8, T9, T10, T15, T20, T25, T27, T30, T40; hex 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16"; and a 2-1/2" bit holder.

Inch/Metric Set includes the following: Phillips #0, #1, #2, #2 reduced; slotted 1/8, 3/16, 1/4"; hex 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"; security hex 5/32; hex 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0; square #1, 2; Posi-drive #1, 2; Torx T5, T6; Tamper-Torx TT7, TT8, TT9, TT10, TT15, TT20, TT25; square adapter 1/4" hex to 1/4", and a 2-1/2" bit holder.

Part No.	Description	Price
191-249	Bit Set, Inch, 39pc.	\$35.65
191-233	Bit Set, Inch/Metric, 39pc.	\$40.15
945-014	Magnetic Screwdriver	\$7.10
945-140	Bit Holder, 2-1/2"	\$5.05
907-037	Plastic Case only	\$2.00



27-Piece Technician's Micro Bit Set

- Perfect for PC techs
- Bits can be used directly with handle or with extension

Includes precision swivel top handle, bit extension, four slotted bits 1.5, 2.0, 3.0, 4.0 mm; four Phillips bits #000, 00, 0, 1; nine Torx bits T3, 4, 5, 6, 7, 8, 9, 10, 15; eight hex bits .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32".

Part No.	Description	Price
12-991	Technician's Micro Bit Set, 27pc.	\$45.90



10-Piece, 1/4" Torx®/Tamper Torx Bits-Selectors

- 181-093
- 12-247

Available in Torx and Tamper-Proof Torx. Compact, lightweight and durable sliding drawer holder.

Part No.	Description	Price
181-093	T7-T40, Bits-Selector Torx Bits, 10pc.	\$20.40
12-247	TT7-TT40, Bits-Selector Tamper-Proof Torx Bits, 10pc.	\$25.45





Miniature Screwdriver Sets

For Use on Miniature Fasteners Found on Today's Electronic Equipment

- Impact resistant handle
- Swivel top for quick and easy fastening
- Chrome-plated blades
- Vapor blasted tips

Screwdrivers are also available separately.

6-Piece Torx Screwdriver Set

Set includes the following screwdrivers: T6, T7, T8, T9, T10, T15.

Part No.	Description	Price
115-218	6-pc. Torx Screwdriver Set	\$36.90

Slotted Screwdrivers

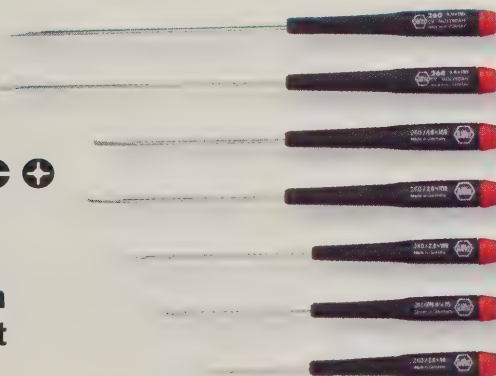
Part No.	Blade Size	Price
160-141	1.5mm x 40mm	\$3.87
181-059	2.0mm x 50mm	\$3.58
160-138	2.5mm x 50mm	\$4.10
416-503	3mm x 60mm	\$4.30

Phillips Screwdrivers

Part No.	Blade Size	Price
160-143	#00 x 40mm	\$3.98
160-652	#0 x 50mm	\$4.40
160-145	#1 x 60mm	\$4.90

Torx Screwdrivers

Part No.	Blade Size	Price
160-656	T6 x 40MM	\$4.67
181-081	T7 x 40MM	\$4.67
162-864	T8 x 40MM	\$4.67
181-082	T9 x 50MM	\$4.68
181-083	T10 x 50MM	\$4.88
181-084	T15 x 50MM	\$4.91



Extended Blade Precision Screwdriver Set

- Phillips/Slotted

Set includes: 2" x 2.5mm, 3" x 2.5mm, 4" x 3.0mm, 6" x 3.0mm, 4" x 4.0mm, 6" x 4.0mm slotted drivers and 3" x #0 Phillips.

Part No.	Description	Price
194-483	Precision Screwdriver Set, 7pc.	\$30.55



Precision Electronic Screwdriver Set

- Phillips/Slotted

Blades are made from hardened, plated chrome-vanadium-molybdenum steel, with precision ground tips for precise fit. Handles are tapered and feature rotating cap at the fingertip. Includes 1/16, 5/64, 3/32, 1/8" slotted drivers and #00, #0, #1 Phillips drivers in a vinyl storage pouch.

Part No.	Description	Price
12-190	Precision Electronic Screwdriver Set, 7pc.	\$24.50



Xcelite

ESD-Safe Precision Screwdriver Sets

ESD-Safe for Maximum Protection of Static Sensitive Components

- No roll handle
- Non-slip rubberized torque collar
- Swivel cap for precise centering and screw turning
- Strong chrome-molybdenum vanadium steel blade
- Black oxide tip for long life

412-040 set includes 6 screwdrivers: 1.5mm x 60mm, 2.0mm x 60mm, 2.5mm x 60mm, 3.0mm x 60mm slotted; #00 x 60mm, #0 x 60mm Phillips.
412-041 set includes Torx sizes T5, and T6, and Tamper-proof Torx sizes T7, T8, T10 and T15. Both sets come complete with a plastic storage case.

Part No.	Model	Description	Price
412-040	XP600	6-pc. ESD-Safe Slotted/Phillips Screwdriver Set	\$22.40
412-041	XPTX600	6-pc. ESD-Safe Torx/Tamper-proof Torx Screwdriver Set	\$26.40





Precision Screwdriver Set

Designed for Easy, One-Hand Operation

- Slim plastic handle
- Hollowed rotating end
- Chrome-vanadium steel blade
- Burnished tip

Part No. 411-746 includes seven screwdrivers (3/32" x 3", 1/8" x 4", 5/32" x 4", 1/8" x 6", 5/32" x 6", #0 x 2-1/2", #1 x 3"). Screwdrivers are also available separately.

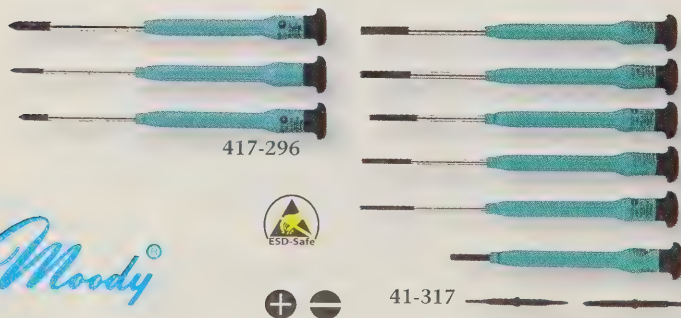
Part No.	Description	Price
411-746	7-pc. Screwdriver Set	\$43.56

Slotted Screwdrivers

Part No.	Blade Size	Price
411-733	1/32" x 2-1/2"	\$8.63
411-734	1/16" x 2-1/2"	\$6.15
411-735	5/64" x 2-1/2"	\$6.02
411-736	3/32" x 3"	\$5.47
411-737	1/8" x 4"	\$5.04
411-738	1/8" x 6"	\$5.54
411-739	5/32" x 4"	\$5.78
411-740	5/32" x 6"	\$6.08

Phillips Screwdrivers

Part No.	Blade Size	Price
411-741	#000 x 2-1/2"	\$8.63
411-742	#00 x 2-1/2"	\$7.39
411-743	#0 x 2-1/2"	\$4.73
411-744	#1 x 3"	\$5.04
411-745	#1 x 7-1/2"	\$10.88



Pollicis®

- Lifetime warranty
- Advanced ergonomic anti-static handle

41-317 includes Slotted: .062/.072; .080/.125"; Slotted/Phillips: .087/.100"
417-296 includes Slotted: .078, .093, .125, .141, .156"; Phillips: #00, #0, #1

Part No.	Description	Price
41-317	6-in-1 Reversible Tip Set	\$10.45
417-296	Fixed Handle Extended Blade Set	\$31.55



Precision Screwdriver Set

- Removable blades

Includes six knurled and plated steel handles, with swivel tops for ease-of-use and precise control. Fully assembled with six hardened, black finish steel blades: .025, .040, .055, .070, .080, and .100" in a vinyl pouch.

Part No.	Description	Price
115-350	Precision Screwdriver Set, 12pc.	\$18.10



6-Piece Fixed-Blade Miniature Screwdriver Set

Quality European-Made Set for Slotted Fasteners

- Tempered nickel blades
- Color-coded handles for easy identification
- Rotating hex caps

Includes sizes: .032", .040", .047", .055", .063" and .080". Overall length 3". Comes with vinyl pouch.

Part No.	Description	Price
401-437	6-pc. Screwdriver Set	\$11.40

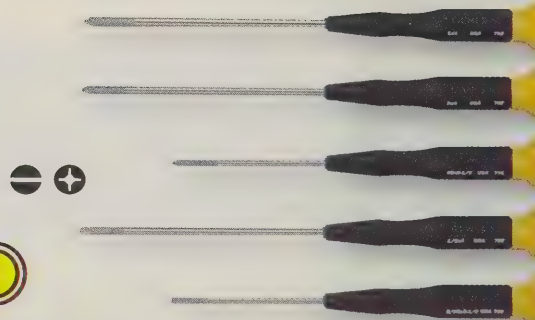


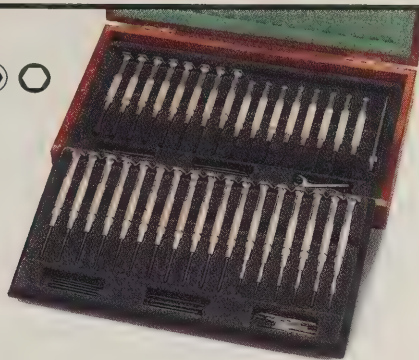
5-Piece Precision Screwdriver Set

- Phillips/slotted

Precision crafted screwdriver set features fingertip swivel head, textured handle and chrome vanadium steel blades. Contains #00 x 2 1/2", #0 x 4" and #1 x 4" Phillips; 3/32 x 2 1/2" and 1/8 x 4" slotted.

Part No.	Description	Price
171-047	Precision Screwdriver Set, 5pc.	\$17.70





Moody

100-Piece Precision Tool Set

■ With solid wooden case

This comprehensive set contains thirty-three chuck-type knurled handles fully assembled with blades, plus thirty-three spare blades, and a 3" extension. Sizes include (two each): Slotted .025", .040", .055", .070", .080", .100"; Phillips #00, #0, #1; Hex .028", .035", .050", .062", .078", .093"; Socket Wrench/Nut Driver 5/64", 3/32", 7/64", 1/8", 5/32"; Open End Wrench 5/32", 3/32", 7/64", 1/8", 5/32" 3/16", 1/4", 5/16"; Torx T3, T4, T5, T6, T8. Comes complete in a solid wooden case with two fitted trays that hold all tools snugly in place.

Part No.	Description	Price
408-207	100-Piece Precision Tool Set	\$230.00

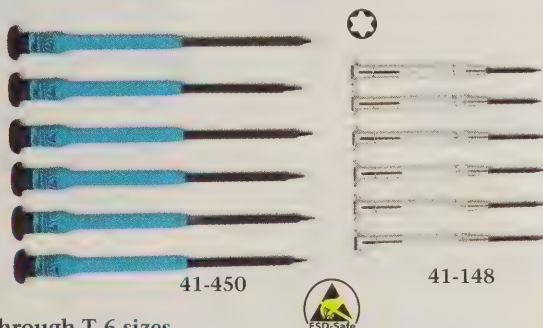
Moody

Precision Torx Driver Sets

■ Very small T-1 through T-6 sizes

Fixed-handle precision drivers fit very small Torx fasteners (T1 through T6) common in computers, instruments and electronic hardware. Available in static-dissipative extended reach and metal-handle standard reach versions. Finest quality construction.

Part No.	Description	Price
41-148	Precision Torx Driver Set, Standard Reach 6/pc.	\$34.25
41-450	Precision Torx Driver Set, Extended Reach 6/pc.	\$29.40



Miniature Torx Electronic Screwdriver Set

Recommended for use on miniature fasteners found on today's electronic equipment. Features small, slim handle of black cellulose acetate with swivel top for quick and easy fastening action. Chrome plated blades with black oxide tips. Includes T5, T6, T7, T8, T9, T10 and T15 drivers.

Part No.	Description	Price
289-508	Torx Screwdriver Set, 7pc.	\$37.95
289-105	Miniature Torx Screwdriver, T5	\$6.30
289-106	Miniature Torx Screwdriver, T6	\$6.30
289-107	Miniature Torx Screwdriver, T7	\$5.19
289-108	Miniature Torx Screwdriver, T8	\$6.30
289-109	Miniature Torx Screwdriver, T9	\$5.52
289-110	Miniature Torx Screwdriver, T10	\$5.51
289-115	Miniature Torx Screwdriver, T15	\$5.59

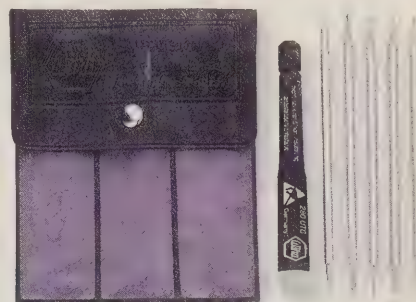


Precision Screwdriver Sets

- ESD-Safe narrow profile handle
- Hardened interchangeable long life blades
- Anti-static pocket size pouch

ESD-safe handle features swivel top, tapered design, and Collet Lock, which allows adjustment of the blade length. 6-piece slotted/phillips set includes handle and four double-ended slotted blades: 1.5mm, 2.0mm, 3.0mm, 3.5mm, 4.0mm, Phillips blades: #000, #00, #1. 8-piece torx screwdriver set includes handle and six double-ended Torx blades: T3, T4, T5, T6, T7, T8, T9, T10, T15, T20. Sets come complete with anti-static, pocket size pouch.

Part No.	Description	Price
408-270	6-Piece Slotted/Phillips Set	\$38.10
408-333	8-Piece Torx Set	\$38.75



New



Multi-Blade Precision Screwdriver Sets

■ Ergonomic dual compound handles

Sets feature swivel top handle and removable blades in a plastic case. Adjustable chuck-type handle permits varying the exposed blade length from 0.6" to 3.75". 4 piece set includes: 4-3/4" long reversible blades with slotted 2mm, 3mm, 4mm, Phillips reversible blades #00, #0 #1 and 4-1/2" handle. 7 piece set includes: 4-3/4" long reversible blades with slotted 1.5mm, 2mm, 3mm, 4mm, Phillips reversible blades #000, #00, #0 #1, Torx T5, T6, T7, T8 and 4-1/2" handle.

Part No.	Description	Price
423-460	Multi-Blade Precision Screwdriver Set, 4pc.	\$18.94
423-481	Multi-Blade Precision Screwdriver Set, 7pc.	\$25.81



New

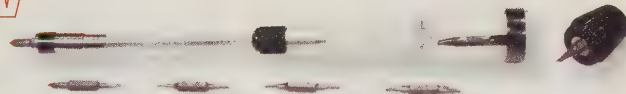
12-in-1 Precision Screwdriver with Stubby

The First Quick Change Precision Screwdriver

- Stubby screwdriver in cap
- Variable length shaft

Patented designed 12-in-1 precision screwdriver features 12 different bits: Phillips: #00, #0, #1, Slotted: 2mm, 3mm, 3.5mm, Torx: T5, T6, T7, T8, T10, T15. The 12-in-1 also features a variable length shaft that extends from 6-1/4" overall length to 8-1/2" overall length. There is a magnetizer/demagnetizer in the cap along with a micro stubby separate screwdriver. Made of a high strength impact resistant plastic body and steel bits.

Part No.	Description	Price
424-900	12-n-1 Precision Screwdriver with Stubby	\$8.90





Moody

117-638

Sub-Miniature Tool Sets



Famous Moody quality with heat-treated tool-steel blades and black finish. **117-638** contains 27 knurled chuck-type handles; 3" extension; plus two each of slotted screwdriver blades .025, .040, .055, .070, .080, .100"; Phillips blades #0 and #1; Allen hex wrench tips .028, .035, .050, .062, .078, .093"; socket wrench tips 5/64, 3/32, 7/64, 1/8, 5/32"; offset open-end wrench tips 5/64, 3/32, 7/64, 1/8, 5/32, 3/16, 1/4, 5/16"; fitted plastic fold-up case. **117-639** is similar but contains only one each of above components. **117-640** contains same 27 tool blades with one handle, in a vinyl fold-up case.

Part No.	Description	Price
117-638	Super Deluxe Set	\$104.00
117-639	Super Standard Set	\$72.45
117-640	Economy Set	\$35.05

Moody

Super Adapter Tool Set

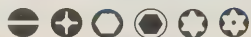
Tremendous selection of precision miniature tools recommended for use with the optional Utica® torque screwdriver as illustrated, or any 1/4" drive hand/cordless driver applications. Blades are hardened, black finished alloy steel. Set includes Insert Bit Adapter, Power Drive Bit Adapter, and the following blades: .025, .040, .055, .070, .080, .100" slotted; #000, #00, #0, #1 Phillips; #000, #00, #0, #1 Japanese Cross Point; T3-T6, T8, T10, T18, T110 Torx/Tamper Torx; .028, .035, .050, .062, .078, .093" Hex; and 5/64, 3/32, 7/64, 1/8, 5/32" Nutdriver blades.



406-924



115-889



Part No.	Description	Price
406-924	Super Adapter Tool Set, 35pc.	\$66.85
115-889	Optional Torque Screwdriver	\$215.00

Moody

Miniature Torx® Driver Set



Nine-piece precision set contains one steel handle and eight interchangeable Torx® blades in sizes: T3, T4, T5, T6, T7, T8, T10, TP8 and TP10. Packaged in reusable plastic pouch.

Part No.	Description	Price
400-483	9-pc. Miniature Torx® Set	\$33.10



Moody® Jeweler's Screwdriver Set

Phillips/Slotted

Precision set for instrument, optical, electronic service and repair work. Knurled handle with swivel top and six interchangeable hardened, black finish steel blades: .040, .070, .100" slotted and #00, #0, #1. Phillips in a handy storage tube.

Part No.	Description	Price
41-208	Jeweler's Screwdriver Set, 7pc.	\$9.25



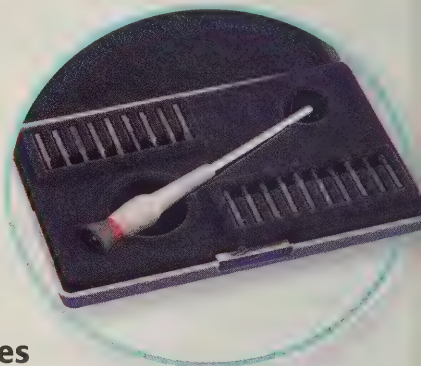
New

AVEN

20-Piece Precision Screwdriver Set with Interchangeable Blades

Microtip 20 piece screw bit set includes handle with bit holder, 3 slotted bits, 2, 2-1/2, 3 and 4mm. 2 phillips bits, #0 and #00. 3 allen hex, 1.5, 2 and 2.5mm. 5 torx bits, T6, T7, T8, T9 and T10. 2 pozi drive bits, #0, #00 and 3 ballpoint hex bits, 1.5, 2 and 2.5mm. Includes convenient storage case with cut outs for all pieces.

Part No.	Description	Price
423-368	20-Piece Precision Screwdriver Set with Interchangeable Blades	\$19.44



New

JENSEN

30 in 1 Precision Screwdriver Set

This 30 in 1 precision screwdriver set features 30 different bits: Phillips: #000, #00, #0, #1, Slotted: 1.0mm, 1.5mm, 2.0mm, 2.5mm, 3.0mm, 3.5mm, 4.0mm, Torx: T4, T5, T6, T7, T8, T9, T10, T15, T20, Hexagon: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", Pozidrive: #0, #1. Handle features a high impact plastic with spin top and the blade features a variable length adjustment from 5" overall length to 7-1/2" overall length. Also features a mechanical bit holder at the end of the blade. Comes complete with high impact graphic box with identified component locations and screw storage compartments.

Part No.	Description	Price
424-902	30 in 1 Precision Screwdriver Set	\$22.30





JENSEN®
Lifetime Guarantee

Screw Starters Magnetic Retrievers

A simple twist of alloy steel bit and screw is held firmly for trouble-free starting. After starting, tool releases screw and re-sets automatically. Permanent magnet at opposite end retrieves nuts or screws dropped into hard-to-reach areas. Slender, lightweight duraluminum handle.

Regular Slot

Part No.	Description	Price
23-021	Slotted Set, 3 pc. (6", 9", 15")	\$20.60
115-486	Slotted Screw Starter, 6"	\$6.25
172-927	Slotted Screw Starter, 9"	\$7.35
174-957	Slotted Screw Starter, 15"	\$7.40

Phillips Head

Part No.	Description	Price
23-023	Phillips Set, 3 pc. (6", 9", 15")	\$23.40
408-776	Phillips Screw Starter, 6"	\$7.15
115-514	Phillips Screw Starter, 9"	\$7.55
411-654	Phillips Screw Starter, 15"	\$10.00

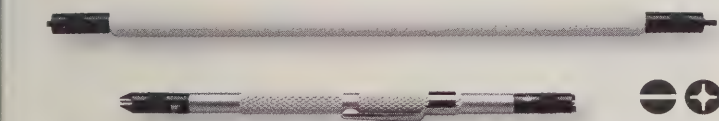


Master Alignment Tool Kit

■ ESD safe

For the electronic technician requiring a complete assortment of alignment tools. Includes alignment tools for IF cans, RF coils, trimmers, potentiometers, etc. Complete with roll pouch.

Part No.	Description	Price
60-300	Master Alignment Tool Kit, 25 pc.	\$43.85



Double-Ended Screw Starters by Ullman Devices

■ Phillips/Slotted

Part No.	Description	Price
115-488	Double-Ended Aluminum Screw Starter, 6"	\$7.25
69-230	Double-Ended Nylon Screw Starter, 9"	\$9.95

Miniature Screw Starter Sets

■ Vinyl handles

57-001 is for slotted screws and has expanding twin bit heads that fit inside the screw to hold it securely. Brass handles. Set accommodates 0, 1, 2, 3, 4, 5, 6, 8, 10, 12 and 1/4". 6" long.

57-002 is for cross-point screws and has expanding split heads that hold screws securely. Set accommodates 0, 1, 2, 3, 4, 5, 6, 8, 10, 12 and 1/4" screws. 8" long.

Part No.	Description	Price
57-001	Slotted Screw Starter Set, 3pc.	\$21.50
57-002	Cross-Point Screw Starter Set, 3pc.	\$22.40



Alignment Tool Kit

■ ESD safe

Wide range of tip styles and sizing assures the user will have a tool for adjusting most conventional components. Complete with storage pouch.

Part No.	Description	Price
60-507	Anti-Static Alignment Tool Kit, 9pc.	\$13.20

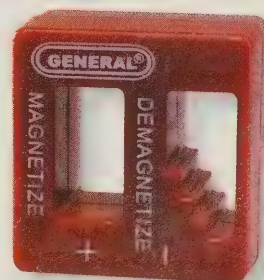


New

Magnetizer Demagnetizer

Great tool to have if you need to magnetize a tool or small part. To magnetize, insert tool in (+) opening and slide back and fourth. To demagnetize, start at the lowest step and repeat procedure. If the tool is not completely demagnetized repeat the procedure at a higher step.

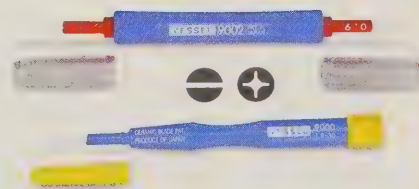
Part No.	Description	Price
424-597	Magnetizer/Demagnetizer	\$6.95



Ceramic Alignment Tools

Special ceramic blades for zero electromagnetic induction. Outlasts metal and plastic tools.

Part No.	Description	Size	Price
8-001	Slotted Tool	0.9 x 30mm	\$17.25
8-002	Slotted Tool 1.8 x 30mm	1.8 x 30mm	\$17.25
8-020	Double-End Slotted Tool	0.9/1.8mm	\$36.75





JENSEN
Lifetime Guarantee

Standard L-Hex Key Sets

- Available in short and long arm sets
- Choose inch or metric
- Convenient molded holders keep keys together.

Part No.	Description	# Keys	Size	Price
370-113	L-Key Set, Inch, Short Arm	13	.050 -3/8"	\$6.10
370-013	L-Key Set, Inch, Long Arm	13	.050-3/8"	\$8.95
370-509	L-Key Set, Metric, Short Arm	9	1.5-10mm	\$6.90
370-009	L-Key Set, Metric, Long Arm	9	1.5-10mm	\$8.65



116-207

Ball End L-Key Sets

Works in Hard to Reach Areas

- Inch & metric
- Long arm

Ball-end can be inserted in screw at angles up to 25° without binding. All sets in indexed case.

Part No.	Description	Size	Price
173-681	Inch Set, 8pc.	.050 thru 5/32"	\$8.35
170-264	Inch Set, 10pc.	1/16 thru 1/4"	\$11.45
116-205	Inch Set, 12pc.	.050 thru 5/16"	\$13.50
161-280	Inch Set, 13pc.	.050 thru 3/8"	\$16.70
116-265	Metric Set, 6pc.	1.5 thru 5mm	\$6.65
116-207	Metric Set, 9pc.	1.5 thru 10mm	\$12.55



170-260

Hex and Spline Key Sets

- Inch or metric

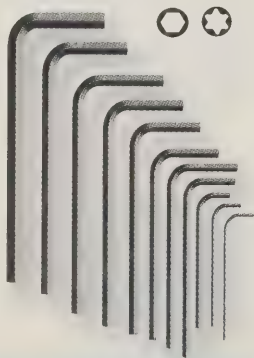
79-050 has ten short arm hex keys: .028 to 5/32".

158-028 has seven short arm metric keys: 2 to 8mm.

79-055 contains ten spline keys: .033-4, .048-4, .048-6, .060-6, .069-4, .072-6, .076-4, .096-6, .111-6, .113-6.

60-028 contains 12 hex keys: .050, 1/16, 5/64, 3/32, 1/8, 5/32"; spline keys: .060-6, .069-4, .076-4, .096-6, .111-6, .145-6.

Part No.	Description	# Keys	Price
79-050	Hex Key Inch Set	10	\$2.80
158-028	Hex Key Metric Set	7	\$6.05
79-055	Spline Key Set	10	\$12.50
60-028	Hex/Spline Key Set	12	\$12.95



JENSEN
Lifetime Guarantee



Ball-End Hex Key Sets

- Choose inch or metric
- Convenient molded holders keep keys together

Part No.	Description	# Keys	Size	Price
370-297	L-Ball End Hex Key Set, Inch	7	5/64-3/16"	\$6.40
370-211	L-Ball End Hex Key Set, Inch	11	.050-1/4"	\$9.20
370-212	L-Ball End hex Key Set, Inch	12	.050-5/16"	\$11.75
370-213	L-Ball End Hex Key Set, Inch	13	.050-3/8"	\$14.80
370-607	L-Ball End Hex Key Set, Metric	7	1.5-6mm	\$6.40
370-609	L-Ball End Hex Key Set, Metric	9	1.5-10mm	\$11.75



Buy Inch/Metric Combo Packs and SAVE!

Part No.	Description	# Keys	Price
370-218	Small Combo Sets (See 370-211 & 370-607)	18	\$15.30
370-222	Large Combo Sets, (See 370-213 & 370-609)	22	\$25.50

Individual Ball End "L" Wrenches

Inch

Part No.	Size	Length	Price
289-802	.050"	2.8"	\$1.80
289-803	1/16"	3.0"	\$1.80
289-804	5/64"	3.2"	\$1.80
289-805	3/32"	3.4"	\$1.80
289-806	7/64"	3.6"	\$1.80
289-807	3/8"	1/8"	\$2.05
289-808	9/64"	3.9"	\$2.05
289-809	5/32"	4.1"	\$2.05
289-810	3/16"	4.5"	\$2.30
289-811	7/32"	4.8"	\$2.30
289-812	1/4"	5.2"	\$2.30
289-813	5/16"	6.0"	\$2.80
289-814	3/8"	6.8"	\$2.85

Metric

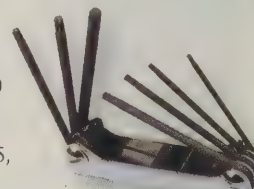
Part No.	Size	Length	Price
289-849	1.27mm	2.8"	\$1.80
289-850	1.5mm	3.0"	\$1.80
289-852	2.0mm	3.2"	\$1.80
289-854	2.5mm	3.5"	\$1.80
289-856	3.0mm	3.9"	\$2.05
289-860	4.0mm	4.3"	\$2.05
289-864	5.0mm	5.0"	\$2.30
289-868	6.0mm	5.4"	\$2.30
289-872	8.0mm	6.2"	\$2.80
289-876	10.0mm	6.6"	\$2.90

Fold-Up Torx Key Sets

370-571 contains 8 keys: T9, T10, T15, T20, T25, T27, T30 and T40. (USA)

370-572 contains 7 keys: T6, T7, T8, T9, T10, T15 and T20.

Part No.	Description	# Keys	Price
370-571	Fold-Up Torx Key Set, Large	8	\$10.15
370-572	Fold-Up Torx Key Set, Small	7	\$11.50





Inch or Metric Balldriver Sets

- Full-size or miniature
- Inch or metric
- Use at any angle up to 25° off axis

Heat treated alloy steel blades with handles and blade length proportioned to fastener size. Large sets in molded plastic case, miniature sets in plastic pouch.

Part No.	Description	Range	Price
289-800	Full-Size Inch Set, 8pc.	7/64 thru 5/16"	\$34.10
180-159	Full-Size Inch Set, 11pc.	5/64 thru 3/8"	\$50.40
116-208	Full-Size Inch Set, 13pc.	.050 thru 3/8"	\$47.20
116-049	Mini-Inch Set, 8pc.	.050 thru 5/32"	\$19.20
415-132	Full-Size Metric Set, 8pc.	2.0 thru 10mm	\$35.70
174-079	Full-Size Metric Set, 9pc.	1.5 thru 10mm	\$43.00
116-052	Mini-Metric Set, 7pc.	1.27 thru 5mm	\$18.45

*Longer length

Individual Balldrivers

Part No.	Hex Size	Blade Length	Price
289-602	.050"	3.2"	\$2.00
289-603	1/16"	3.3"	\$2.25
116-041	5/64"	3.5"	\$2.35
289-605	3/32"	3.7"	\$2.40
289-606	7/64"	2.9"	\$2.50
116-044	1/8"	3.1"	\$2.65
289-608	9/64"	3.3"	\$2.80
289-609	5/32"	3.5"	\$2.70
289-610	3/16"	3.8"	\$3.95
116-051	1.5mm	3.4"	\$2.85
161-272	2.0mm	3.5"	\$2.65
161-271	2.5mm	3.9"	\$2.65
161-286	3.0mm	3.3"	\$2.85
161-289	4.0mm	3.8"	\$3.35



T-Handle Balldrivers

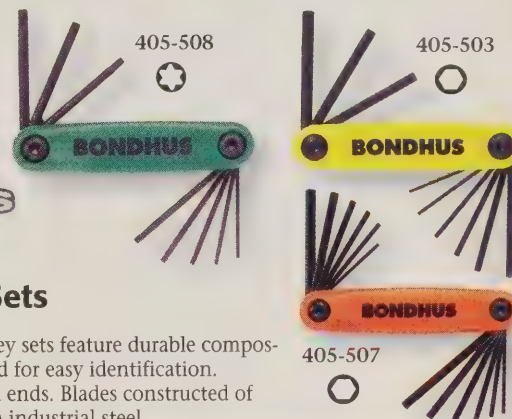
Welded Steel Handles and Cushion Grips for Maximum Torque

- Extra long 8.5 to 11"
- Inch or metric

Cushioned grips on welded T-handles. The ballpoint end slides easily into a socket head screw, and can drive or loosen from an angle of 25° off-axis.

289-146 has 5/32, 3/16, 7/32, 1/4, 5/16, 3/8";
170-286 has 3/32, 7/64, 1/8, 9/64 (not ball end), 5/32, 3/16, 7/32, 1/4, 5/16, 3/8";
289-148 has 4, 5, 6, 8, 10mm;
411-173 has 2.0, 2.5, 3, (not ball end), 4, 5, 6, 8, 10mm sizes.

Part No.	Description	Size	Price
289-146	Inch T-Handle Set, 6 pc.	5/32-3/8"	\$35.80
170-286	Inch T-Handle Set, 10 pc.	3/32-3/8"	\$48.25
289-148	Metric T-Handle Set, 5 pc.	4-10mm	\$30.75
411-173	Metric T-Handle Set, 8 pc.	2.0-10mm	\$40.60



Gorilla Grip™ Fold-Up Key Sets

Compact fold-up key sets feature durable composite handles, color coded for easy identification. Precision fit chamfered ends. Blades constructed of high-torque protanium industrial steel.

Part No.	Description	Size	Price
405-503	Inch Hex Key Set, 9pc.	5/64 - 1/4"	\$6.50
405-502	Inch Hex Key Set, 9pc.	0.050 - 3/16"	\$5.40
405-505	Metric Hex Key Set, 7pc.	1.5 - 6mm	\$5.35
405-508	Torx Key Set, 8pc.	T6 - T25	\$13.15
405-507	Inch/Metric Hex Set, 12pc.	5/64 - 5/32", 1.5 - 5mm	\$9.10



Inch or Metric Bonus Packs

- Choose inch or metric
- Save over individual sets

Balldriver L-Wrench sets offered with Gorilla Grip fold-up hex key sets.

Inch Bonus Pack contains 13 Balldriver L-keys from .050 to 3/8" and a 9 piece standard hex Gorilla Grip set from 5/64 to 1/4".

Metric Bonus Pack contains nine metric Balldriver L-keys from 1.5 to 10mm and a 7 piece standard hex Gorilla Grip set from 2 to 8mm.



Part No.	Description	Price
289-189	Inch Bonus Pack	\$21.60
180-158	Metric Bonus Pack	\$19.30



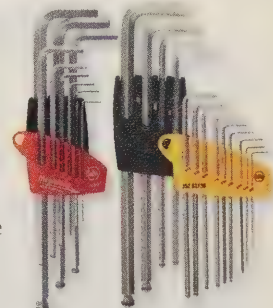
MagicRing Ball-end Hex Key Sets

MagicRing patented hex tools feature three tools in one: standard hex tool, ball end for angle entry and screw holder for increased productivity. Hardened spring steel retaining ring at the tool tip holds fasteners securely for easy starting. Precision machined for exact fit - no cutoff distortions. Constructed of Wiha exclusive CFM hardened tool steel with chrome-plated finish. Sets feature Prostar tip & slide holder for fast access to the keys.

419-624 includes 0.050", 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8"

419-625 includes 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0mm

Part No.	Description	Price
419-624	MagicRing Hex Key Set, Inch, 13pc.	\$33.65
419-625	Magic Ring Hex Key Set, Metric, 9pc.	\$26.80





MagicRing Screw-Holding Balldriver Sets

A Breakthrough in Hex Tools

- Precision machined for perfect fit
- Satin hard chrome finish resists corrosion

Dramatically increase productivity with the MagicRing hex L-wrench tools. The innovative design incorporates a ballpoint hex end, which allows the tool to slide easily into a socket head screw and can drive or loosen from an angle of 25% off-axis, and a hardened spring steel retaining ring that holds fasteners in place. Sets include ProStar slide and tip out holder for quick access. Model 66991 includes: .050", 1/16", 5/64", 3/32", and 7/64" in standard balldriver style (without retaining ring), and 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", and 3/8". Model 66990 includes: 1.5mm, 2.0mm, and 2.5mm in standard balldriver style (without retaining ring), and, 3.0mm, 4.0mm, 5.0mm, 6.0mm, 8.0mm, 10.0mm. Both sets come complete with ProStar plastic holder.

Part No.	Model	Description	Price
419-701	66991	13-pc. Inch Set	\$32.98
419-702	66990	9-pc. Metric Set	\$26.26



MENDA

Nut Starter For Hard-to-Reach Places

Now fasten small units easily where your fingers can't reach. This unique plastic tool holds nuts securely for quick and easy starting in tight places and corners. Fits nut sizes 2 through 6.

Part No.	Description	Price
127-470	Nut Starter	\$1.40



"Same Day" Shipping
On Most Orders

Xcelite

Ballpoint Hex Drivers

Blade Length 4".

Part No.	Size	Price
116-243	.050"	\$7.25
116-245	1/16"	\$7.25
116-249	3/32"	\$7.25
116-271	7/64"	\$7.85
116-275	9/64"	\$8.15
116-253	5/32"	\$7.60
116-255	3/16"	\$8.20

Hex Drivers

Blade Length 4" except for LN25 6" blade

Part No.	Size	Price
116-242	.050"	\$4.75
116-244	1/16"	\$4.95
116-246	5/64"	\$4.65
116-248	3/32"	\$5.00
116-270	7/64"	\$5.10
116-274	9/64"	\$5.45

Xcelite

Full Hollow-Shaft Nutdrivers

Shaft Length 3-1/8", Hole Depth 7".

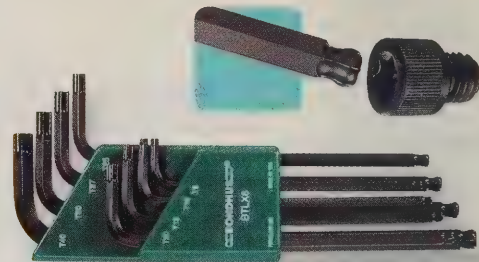
Part No.	Model	Size	Color	Price
115-982	HS6	3/16"	Black	\$5.10
115-984	HS7	7/32"	Brown	\$5.15
115-985	HS8	1/4"	Red	\$5.15
115-986	HS9	9/32"	Orange	\$5.15
115-976	HS10	5/16"	Amber	\$5.20
115-977	HS11	11/32"	Green	\$5.50
115-978	HS12	3/8"	Blue	\$5.50
115-979	HS14	7/16"	Brown	\$7.00
115-980	HS16	1/2"	Red	\$7.50
115-981	HS18	9/16"	Orange	\$7.50

Xcelite

Regular Nutdrivers

Shaft Length 3", Hole Depth 1-1/8".

Part No.	Model	Size	Color	Price
115-919	6	3/16"	Black	\$4.85
115-940	7	7/32"	Brown	\$4.85
115-942	8	1/4"	Red	\$5.60
115-945	9	9/32"	Orange	\$4.85
115-897	10	5/16"	Amber	\$5.00
115-900	11	11/32"	Green	\$5.10
115-902	12	3/8"	Blue	\$5.10
115-906	14	7/16"	Brown	\$6.50



Ballpoint Torx® Sets

- Large and small sets available

Ballhead on long arm offers 0° to 20° access to recessed screw heads. Short arm has standard Torx head for normal use. Two sets available: LTX6 contains six wrenches in sizes: T6, T7, T8, T9, T10 and T15. LTX8 contains eight wrenches in sizes: T9, T10, T15, T20, T25, T27, T30, T40. Comes in polyethylene carrying case.

Part No.	Model	Description	Price
130-332	LTX6	Small Ballpoint Torx Set	\$23.65
116-277	LTX8	Large Ballpoint Torx Set	\$36.90

TORX® Key Wrench Sets

6-Piece set includes: T10, T15, T20, T25, T27, and T30. 13-Piece set includes: T7, T8, T9, T10, T15, T20, T25, T27, T30, T40, T45, T50, and T55.

Part No.	Description	Price
116-063	6-pc. Set	\$14.05
116-101	13-pc. Set	\$29.95

Xcelite

Midjet Pocket-Style Nutdrivers

- Partially hollowed steel shafts
- Cold drawn, case-hardened sockets
- Shockproof, UL handles
- Color-coded and marked for easy identification

Shaft Length 1-1/4", Hole Depth 1".

Part No.	Model	Size	Color	Price
191-382	P4	1/8"	Red	\$3.35
190-216	P5	5/32"	Amber	\$3.60
191-682	P6	3/16"	Black	\$3.35
191-684	P8	1/4"	Red	\$3.35
191-490	P10	5/16"	Amber	\$3.35



Crescent

Cushion Grip Nutdrivers

Premium quality nutdriver set features precision machined, casehardened socket and hollow steel shaft. Tapered cushion grip interlocks with butyrate core giving a powerful, comfortable grip. Includes 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2".



Part No.	Description	Price
3-119	Cushion Grip Nutdriver Set, 7pc.	\$41.25

GENERAL

Precision Nutdriver Set

Fits small hex nuts in sizes 3/32, 1/8, 5/32, 7/32 and 1/4". Textured handle with fingertip swivel head. Nickel-plated heat-treated carbon steel construction. 2-1/2" blade length. 6" overall length.



Part No.	Description	Price
39-750	Precision Nutdriver Set, 5pc.	\$16.85

Pocket Sockets

Eight popular size nutdrivers in two tools. Handle is 3" long. 115-913 has sizes 1/4, 5/16, 3/8 and 7/16" nutdrivers. 115-914 has sizes 3/16, 7/32, 9/32, and 11/32" nutdrivers.



Part No.	Description	Price
115-913	Pocket Socket	\$13.95
115-914	Pocket Socket	\$13.95

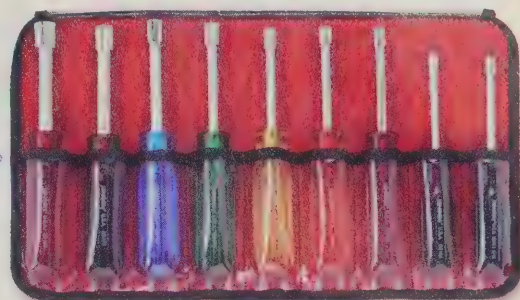
JENSEN

Lifetime Guarantee

Nutdriver Set

Hollow Shaft

Set contains nine nutdrivers in Cordura® rollpouch: 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 and 1/2". Color-coded handles for easy size selection.



Part No.	Description	Price
23-103	Nutdriver Set, 9pc.	\$47.00
216-292	Pouch only	\$11.00

Xcelite

Mini-Nutdriver Set

Saves Bench Space, and Lightens Your Service Kit

- Color-coded handles for easy size selection
- Hollow shaft
- Overall length 3-1/2"

Set includes 10 mini-nutdrivers (3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32" and 3/8") and one 3-1/8" torque amplifier handle. Comes complete with a stand-up fitted plastic case. Nutdrivers also available individually.



Part No.	Description	Price
191-686	Mini-Nutdriver Set, 10pc.	\$34.10

Xcelite

Nutdriver Sets

Includes Sturdy "Keep and Carry" Case

- Fixed handles
- Inch or metric

Inch Set includes color-coded nutdrivers, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, and 9/16" in molded case. Full hollow shafts.

Metric Set includes 4, 4.5, 5, 5.5, 6, 7, 8, 10, 11, 13mm in molded case. Shafts are drilled out to 1-1/4".



Part No.	Description	Price
3-227	Inch Nutdriver Set, 10pc.	\$56.80
115-911	Metric Nutdriver Set, 10pc.	\$59.55



Deluxe Insulated Maintenance Kit

- Protection from shock and flashover
- Tested at 10,000 volts for use up to 1000 volts
- Two-color double insulation

Comprehensive assortment of 29 insulated tools stored in a rugged, water-proof, polyethylene case. Die-cut foam protects tools and insures tool accountability. 15 x 6.25 x 19.75", 20 lbs.



29 tools in all:

Screwdriver, Slotted (3)
9/64 x 2, 3/16 x 4-1/2",
1/4 x 6"
Screwdriver, Phillips (2)
#1 x 3", #2 x 4"
Lineman's Pliers, 9"
Needle Nose Pliers, 8"
Diagonal Pliers, 7-1/2"
3/8" Drive
Reversible Ratchet
3/8" Drive x 3" Extension
3/8" Drive x 6" Extension
8 piece 3/8" to
13/16" Deep
Wall Socket set - 12 pt.

8 piece 3/8" to 3/16"
Box End Wrench Set
3/8" Torque Wrench
(5 - 150 inch lbs.)
Mini Flashlight

Part No.	Description	Price
346-100	Deluxe Maintenance Kit	\$1,510.00



MRO Super Kit Deluxe

Extensive selection of insulated safety tools in heavy-duty safety-yellow toolcase.

57 Tools in all:

Screwdriver, slotted, cushion grip:
9/64 x 2", 3/16" x 4-, 3/16" x 6", 5/16 x 6"
Screwdriver, Phillips, cushion grip: #2 x 4",
#2 x 8".
Pliers: 9" linesman's, 8" needle-nose, 7-1/2"
diagonal, 9-1/2" cable-cutting, 10" water
pump, combination stripper/crimper pliers.

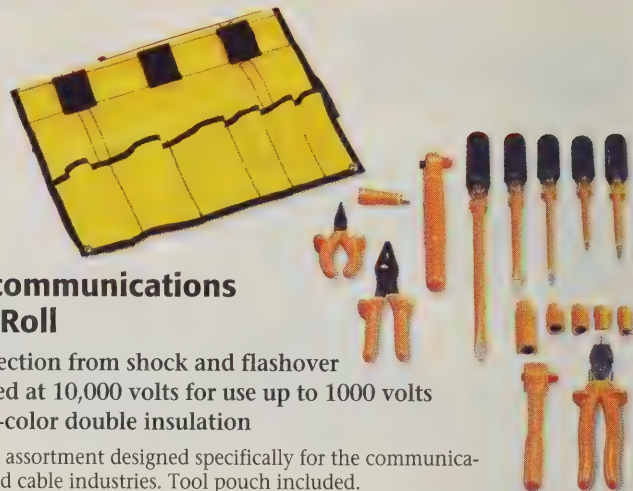
Long Arm Hex Wrench Set, 14pc, 1/16 to 1/2
3/8" drive reversible ratchet
3/8" drive x 3" extension
3/8" drive x 6" extension
Socket set, 10pc, 5/16 to 7/8"
Box-end wrench set, 11pc, 3/8" to 1"
Nutdrivers, box-end, cushion grip,
6", 3/16", 1/4", 11/32", 3/8", 7/16", 1/2"

Part No.	Description	Price
419-620	MRO Super Kit Deluxe	\$2,095.00

Telecommunications Tool Roll

- Protection from shock and flashover
- Tested at 10,000 volts for use up to 1000 volts
- Two-color double insulation

Tool assortment designed specifically for the communications and cable industries. Tool pouch included.



16 Tools in all:

Lineman's Pliers, 9"
Needle Nose Pliers, 6"
Slip Joint Pliers, 8"
Screwdriver, Slotted (4)
3/16 x 4-1/2" Cabinet,
1/4 x 4-1/2" Mechanics,
5/16 x 6" Mechanics,

3/8 x 10" Mechanics
Screwdriver, Phillips #2 x 4"
3/8" Drive Reversible Ratchet
3/8" Drive 3" Extension
3/8" Drive Sockets (4) 3/8, 7/16, 1/2, 9/16"
3/8" Drive Deep Wall Socket 5/8"
3/8" Drive Torque Wrench
(30-150 inch lbs.)

Part No.	Description	Price
346-101	Telecommunications Tool Roll	\$741.00

Insulated Deep Wall Socket Set

- Protection from shock and flashover
- Tested at 10,000 volts for use up to 1000 volts
- Two-color double insulation

11 piece set includes a 3/8" Drive Reversible Ratchet, 3" and 6" extensions and eight deep wall sockets in sizes 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 and 13/16". Tool pouch included.



Part No.	Description	Price
346-102	Insulated Socket Set	\$349.00

Class O 1000-V Glove Kits

For employee protection in potentially dangerous electrical work environments. Class-O, 1000-volt maximum rating. Pair of gloves includes heavy canvas carrying pouch.



Part No.	Description	Price
346-0004	GKO-9 1000-V Glove Kit, Size 9	\$144.95
346-0001	GKO-10 1000-V Glove Kit, Size 10	\$140.75
346-0002	GKO-11 1000-V Glove Kit, Size 11	\$149.95
346-0003	GKO-12 1000-V Glove Kit, Size 12	\$157.00



Cemenfex

Insulated Screwdrivers and Nutdrivers

- Comfortable cushion-grip handles
- Individually Tested at 10KV for use up to 1000V
- Two-color Insulation
- Meets ASTM 1505-94 and IEC 900 Standards

Nutdrivers are color-coded for quick identification. 2-1/2" hollow shaft permits driving of nuts over long screws.

Part No.	Description	Size	Length	Price
346-024	Insulated Screwdriver, Slotted	7/32"	1-3/4"	\$20.00
346-025	Insulated Screwdriver, Slotted	7/32"	3-1/4"	\$20.35
346-026	Insulated Screwdriver, Slotted	1/4"	4-1/2"	\$19.95
346-027	Insulated Screwdriver, Slotted	5/16"	6"	\$21.55
346-028	Insulated Screwdriver, Slotted	3/8"	8"	\$22.90
346-029	Insulated Screwdriver, Phillips	#1	3"	\$18.90
346-030	Insulated Screwdriver, Phillips	#2	1-1/2"	\$18.90
346-031	Insulated Screwdriver, Phillips	#2	4"	\$18.90
346-032	Insulated Screwdriver, Phillips	#2	8"	\$18.90
346-033	Insulated Nutdriver, Black	3/16"	-	\$18.65
346-034	Insulated Nutdriver, Red	1/4"	-	\$18.65
346-035	Insulated Nutdriver, Yellow	5/16"	-	\$18.65
346-036	Insulated Nutdriver, Green	11/32"	-	\$18.65
346-037	Insulated Nutdriver, Blue	3/8"	-	\$20.25
346-038	Insulated Nutdriver, Brown	7/16"	-	\$20.25
346-039	Insulated Nutdriver, Red	1/2"	-	\$21.55
346-043	Insulated Nutdriver, Orange	9/16"	-	\$23.15

Cemenfex

Insulated Wire Stripper and Cutters

- Molded-in thumb-stops
- Individually Tested at 10KV for use up to 1000V
- Meets ASTM 1505-94 and IEC 900 Standards

346-040 strips 10-18AWG solid-conductor primary wire. Pliernose.
346-041 handles thick gauge wire.
346-042 cuts up to 4/0 aluminum and 2/0 soft copper cable.

Part No.	Description	Length	Price
346-040	Insulated Wire Stripper	6"	\$35.25
346-041	Insulated Diagonal Cutters	6"	\$33.75
346-042	Insulated Cable Cutting Pliers	9-1/2"	\$56.70



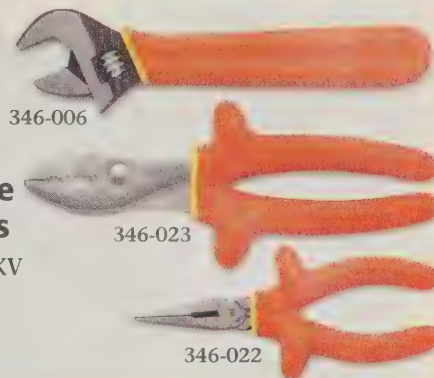
Cemenfex

Insulated Adjustable Wrenches and Pliers

- Individually Tested at 10KV for use up to 1000V
- Two-color Insulation
- Meets ASTM 1505-94 and IEC 900 Standards

Part No.	Description	Length	Price
346-021	Insulated Adjustable Wrench*	6"	\$40.95
346-006	Insulated Adjustable Wrench*	8"	\$42.00
346-005	Insulated Adjustable Wrench*	12"	\$65.10
346-023	Insulated Slip-Joint Pliers	8"	\$39.40
346-022	Insulated Needle Nose Pliers	6"	\$39.40

* Not 1000V rated due to the uninsulated working head.



Insulated Terminal Screwdriver Set

- For terminal screws with slotted/recessed heads
- VDE and AC 1000V approved

Insulation is injection molded onto the high grade vanadium steel blade and permanently attached to the shock-resistant plastic handle. Set contains two terminal screwdrivers, size 1 and 2.

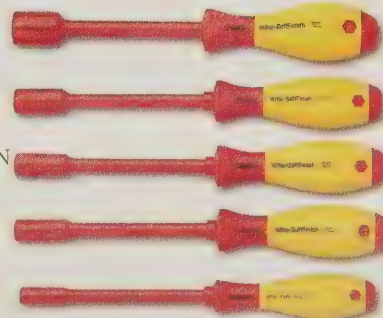
Part No.	Description	Price
423-550	Insulated Terminal Screwdriver Set	\$23.67



Insulated Nutdriver Set

Manufactured in accordance with IEC900, ASTM-1505-94, VDE, and DIN 7437. Individually tested to 10,000V and certified to 1000VAC or 1500VDC. Insulation molded directly on blades for permanent bonding. 1" deep sockets. Large comfortable handles. Includes 7/32, 1/4, 5/16, 3/8 and 1/2" sizes.

Part No.	Description	Price
417-724	Insulated Nutdriver Set, 5pc.	\$48.65



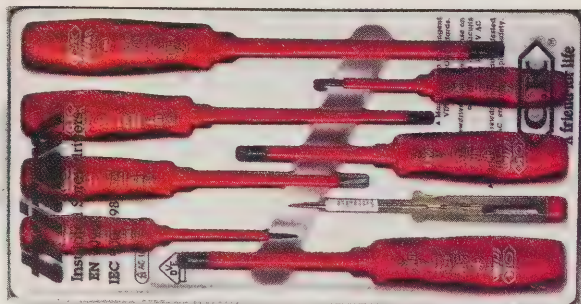


8-Piece Ergonomic Insulated Tool Kit

Provides Shock Protection to 1000 VAC

These ergonomic tools feature dual compound handles, with soft non-slip inlays, and are insulated to 1000 VAC. German-made pliers and cutters are drop-forged from chrome vanadium and high carbon alloy steels with cutting edges hardened to 60 HRC. Grips have generous anti-slip horns to prevent hand contact with bare steel. Screwdrivers feature insulated handles and shafts. Insulation is injection molded around welded anchors on the tools, and cannot be pulled off. Eight-piece kit contains one of each of the following: 6" side cutters, 6-3/4" chain nose pliers, 6-1/2" wire stripping pliers, slotted screwdrivers: 3/32" x 3", 1/8" x 4", 7/32" x 5", Phillips screwdrivers: #1 x 3-1/8", and #2 x 4". Kit comes complete with vinyl zipper case, which features individual pouches to hold tools firmly in place.

Part No.	Description	Price
416-951	8-pc. Ergonomic Insulated Tool Kit	\$199.38



Ergonomic Insulated Screwdriver Sets

Provides Shock Protection to 1000 VAC

High-quality, German made insulated screwdrivers meet VDE standards for safety to 1000 VAC. Chrome-vanadium steel blades are precision machined and hardened throughout the entire blade to 52-60 RC. Six piece set contains four slotted screwdrivers in sizes 7/64 x 3", 5/32 x 4", 11/64 x 5", mainstester 220-250V and two Phillips screwdrivers in sizes #1 x 3" and #2 x 4". Eight piece set contains five slotted screwdrivers in sizes 7/64 x 3", 5/32 x 4", 11/64 x 5", 1/4" x 6", mainstester 220-250V and three Phillips screwdrivers in sizes #0 x 2-3/8", #1 x 3" and #2 x 4".

Part No.	Description	Price
424-049	6-Pc. Insulated Driver Set	\$29.45
194-474	8-Pc. Insulated Driver Set	\$39.57

Insulated Screwdriver Set

- Conforms to IEC 900, ASTM 1505-94, DIN EN6090
- For use up to 1000V

Insulation is injection molded onto the high grade vanadium steel blade and permanently attached to the shock-resistant plastic handle. Set contains four slotted drivers: 1/8 x 3", 1/8 x 4", 3/16 x 5", 1/4 x 6", and three Phillips drivers: #0 x 2-1/2", #1 x 3", #2 x 4".

Part No.	Description	Price
945-800	Insulated Screwdriver Set, 7pc.	\$44.12



Insulated Wrenches

Double insulated handle, red over yellow. Single insulation, red, over tool head only. Chrome-plated chrome-vanadium steel construction. Box wrenches are 12-point style. Conforms to IEC 900 DIN EN60900, VDE 10,000V tested for use up to 1,000V.



Box End Part No.	Price	Size	Open End Part No.	Price
194-410	\$30.69	3/8"	194-420	\$24.92
194-411	\$30.69	7/16"	194-421	\$24.92
194-412	\$31.94	1/2"	194-422	\$27.64
194-413	\$36.91	9/16"	194-423	\$30.45
194-414	\$43.56	5/8"	194-424	\$32.87
194-415	\$43.56	11/16"	194-425	\$32.87
194-416	\$46.91	3/4"	194-426	\$34.42
194-417	\$53.00	7/8"	194-427	\$38.22
194-418	\$60.28	15/16"	194-428	\$44.17
194-419	\$60.28	1"	194-429	\$58.03
194-485	\$30.69	10mm	194-495	\$24.92
194-486	\$30.69	11mm	194-496	\$24.92
194-487	\$31.94	12mm	194-497	\$26.16
194-488	\$31.94	13mm	194-498	\$27.64
194-489	\$36.91	14mm	194-499	\$30.45
194-490	\$43.56	17mm	194-500	\$32.87
194-491	\$46.91	19mm	194-501	\$34.81
194-492	\$53.00	21mm	194-502	\$34.81
194-493	\$53.00	22mm	194-503	\$38.22
194-494	\$60.28	24mm	194-504	\$44.17



Insulated 1/4"-Hex Bit Driver

- Meets ASTM-F-1505-94, VDE 0682/201, EN60900 and IEC 60900 safety standards
- Individually tested at 10,000VAC for use up to 1000V

Extra-strong magnet for safe bit retention. Includes six 1/4" hex bits: 1 each 0.31 and 0.47" slotted, 2 each Phillips #1, #2. May be used with most 1" long 1/4" hex drive bits making this a highly versatile tool. Six bit storage compartments in handle with rotating "window" allows selection of the bit needed while retaining others.

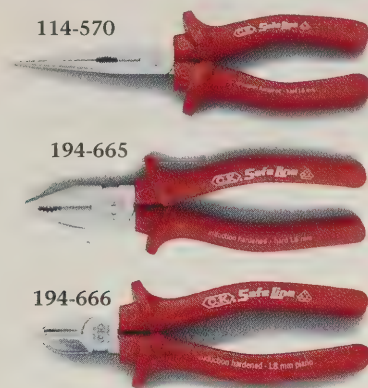
Part No.	Description	Price
194-455	Insulated 1/4"-hex Bit Driver	\$31.37



Insulated Electrician's Pliers

- Insulation molded & anchored to handles
 - Individually tested at 10,000VAC for use up to 1000V
 - Meets VDE, IEC 900 and EN60900 standards
- Forged from chrome vanadium and high carbon steel.

Part No.	Description	Length	Price
114-570	Long Nose Pliers w/Cutter rated for 1.6mm Hard Wire	8"	\$43.56
194-665	Lineman's Pliers w/Cutter rated for 1.6mm Hard Wire	8"	\$48.53
194-666	Diagonal Cutter rated for 1.8mm Piano Wire	7"	\$47.28



Insulated Tool Set

- Top quality construction
- Conforms to IEC 900, ASTM 1505-94, DIN EN6090
- For use up to 1000V

Insulation is permanently affixed to tools. Chrome vanadium steel set contains 7" side cutter, 8" long nose pliers, 6 1/2" long nose pliers, 8" lineman's pliers, seven slotted screwdrivers: 7/64 x 3", 5/32 x 4", 7/32 x 5", 1/4 x 6" and three Phillips: #0 x 2-1/4", #1 x 3" and #2 x 4". Zipper storage case.

Part No.	Description	Price
408-711	Insulated Tool Set, 11pc.	\$302.39

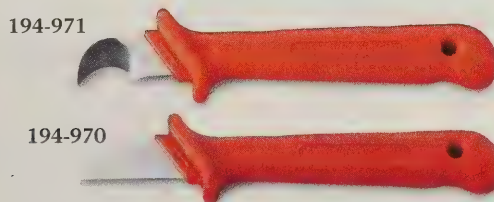


Insulated Cable Knives

- Individually tested at 10,000VAC for use up to 1000V
- Meets VDE, IEC 900 and EN60900 standards

194-970 features 1-3/4" long straight blade. 194-971 features 1-1/2" long hooked blade. Includes safety black cover.

Part No.	Description	Length	Price
194-970	Insulated Cable Knife, Straight Blade	7"	\$16.46
194-971	Insulated Cable Knife, Hooked Blade	7"	\$17.33



STANLEY
PROTO

7 Piece Insulated Screwdriver Set

- Tested to 10,000 Volts
- Rated to 1000V AC/1500V DC

Insulated tool set has 7 pieces. Safety orange for quick identification. Tested to 10,000 volts; rated to 1000V AC/1500V DC. Set contains: 3 Phillips tip screwdrivers and 4 slotted tip screwdrivers. Convenient zipper case for storage and transport.

Part No.	Description	Price
424-963	7 Piece Insulated Screwdriver Set	\$35.35



424-964



424-965



424-966

STANLEY
PROTO

Insulated Pliers

- Tested to 10,000 Volts
- Rated to 1000V AC/1500V DC

The Proto line of insulated pliers meet the stringent standards VDE 0682/201, EN 60900 and ASTM-F 1505-94 for electrical safety up to 1000V AC with the added safety of the injection molding process by which the plastic material of the handles is connected with the steel. Safety orange for quick identification.

Part No.	Description	Length	Price
424-964	Insulated Diagonal Cutting Pliers	7"	\$26.00
424-965	Insulated Needle Nose Pliers	8"	\$21.35
424-966	Insulated Lineman's Pliers	8"	\$23.00



STANLEY
PROTO

11-Piece Insulated Tool Kit

- Tested to 10,000 Volts
- Rated to 1000V AC/1500V DC

The Proto line of insulated pliers meet the stringent standards VDE 0682/201, EN 60900 and ASTM-F 1505-94 for electrical safety up to 1000V AC with the added safety of the injection molding process by which the plastic material of the handles is connected with the steel. Set includes: #1, #2 and #3 Phillips. 5/32", 7/32" 1/4" and 5/16" slotted screwdrivers. 8" linesman pliers, 6-19/64" diagonal pliers, 6-3/4" needle nose pliers, 8" needle nose pliers and convenient zipper case for storage and transport.

Part No.	Description	Price
426-741	11 Piece Insulated Tool Kit	\$172.50





JENSEN
Lifetime Guarantee



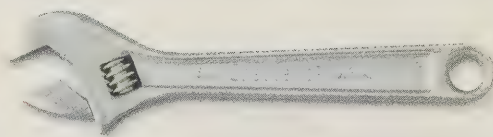
Adjustable Wrenches

- Cushion grip handles
- Wide jaw design

SAE increments on the head provide convenient sizing. Cushion grip for extra comfort. These top quality wrenches are made of high strength alloy steel which meet or exceed federal specifications.

Part No.	Description	Length	Jaw Capacity	Price
1-468	Wrench Set	(4", 6", 8")	—	\$39.80
191-225	Adjustable Wrench	4"	9/16"	\$12.95
191-219	Adjustable Wrench	6"	1"	\$13.95
191-227	Adjustable Wrench	8"	1-3/16"	\$14.95
191-267	Adjustable Wrench	10"	1-7/16"	\$19.95
191-275	Adjustable Wrench	12"	1-5/8"	\$25.95

Crescent



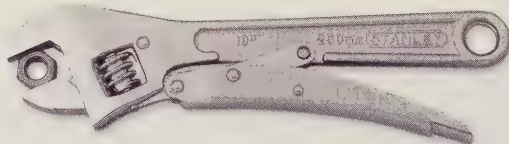
Wide Jaw Adjustable Wrenches

- Lifetime factory guarantee
- One-hand adjustment

Chrome-plated wrenches exceed all federal specifications.

Part No.	Description	Length	Jaw Capacity	Price
66-320	Wide Jaw Adj. Wrench	6"	15/16"	\$16.00
407-418	Wide Jaw Adj. Wrench	8"	1-1/8"	\$16.30
407-699	Wide Jaw Adj. Wrench	10"	1-15/16"	\$20.25
407-700	Wide Jaw Adj. Wrench	12"	1-1/2"	\$31.30

STANLEY



MaxGrip™ Locking Adjustable Wrench

Unique design features two tools in one: traditional adjustable wrench and locking plier. Heavy-duty jaws grips fastener tight minimizing slippage. Great for loosening stubborn fasteners. Forged body exceeds ANSI standards for torque.

Part No.	Description	Length	Price
865-610	MaxGrip Locking Adjustable Wrench	10"	\$25.00

Crescent



Wide-Opening Adjustable Wrenches

- Vinyl Cushion-Grip Handle
- Drop-forged alloy steel
- Knurled thumbscrew for easy adjustment

Conforms to all federal specifications for hardness and strength.

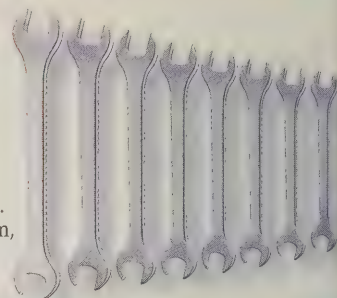
Part No.	Model	Length	Jaw Capacity	Price
119-137	AC14C	4"	1/2"	\$17.25
402-051	AC16C	6"	15/16"	\$17.90
402-052	AC18C	8"	1-1/8"	\$19.25
402-053	AC110C	10"	1-15/16"	\$27.00
402-054	AC112C	12"	1-1/2"	\$33.30

STANLEY
PROTO

New

8-Piece Open End Wrench Sets

Inch sizes: 1/4" x 5/16", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8" and 15/16" x 1". Metric sizes: 6 x 7mm, 8 x 9mm, 10 x 11mm, 12 x 13mm, 14 x 15mm, 16 x 17mm, 18 x 19mm, and 20 x 22mm. Both sets include pouch.

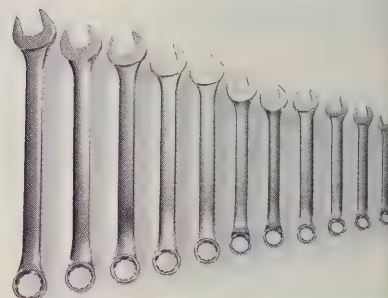


Part No.	Model	Description	Price
424-926	BW-108PNB	Inch Wrench Set	\$76.20
424-927	BW-108MNB	Metric Wrench Set	\$68.20

STANLEY
PROTO

11-Piece Combination Wrench Sets

Inch sizes: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", and 1". Metric sizes: 7, 9, 10, 11, 12, 13, 14, 15, 17, 18, and 19mm. Both sets include pouch.



Part No.	Model	Description	Price
424-589	BW-11PT	Inch Wrench Set	\$85.00
424-595	BW-11P	Metric Wrench Set	\$116.70

JENSEN
Lifetime Guarantee

Midget Open End Wrench Sets

- Inch or metric

Open-end precision forged wrenches with both 15° and 60° head angles for ease of use. Inch Set includes sizes 13/64, 7/32, 15/64, 1/4, 9/32, 5/16, 11/32, and 3/8". Metric Set includes sizes 4, 4.5, 5, 5.5, 6, 7, 8, and 9mm. Both sets supplied in vinyl roll pouches.



Part No.	Description	Price
461-180	Midget Open End Wrench Set, Inch, 8pc.	\$18.40
461-050	Midget Open End Wrench Set, Metric, 8pc.	\$20.50

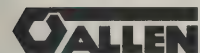
Miniature Combination Wrench Sets

- Inch or metric

Perfect for the miniature fasteners found in electronic and mechanical components. Made of heat treated and chrome-plated high alloy steel in durable vinyl pouch. Inch Set: 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32 and 3/8". Metric Set: 4, 5, 5.5, 6, 7, 8 and 9mm.



Part No.	Description	Price
461-001	Mini. Comb. wrench Set, Metric, 7pc.	\$32.50
461-100	Mini. Comb. wrench Set, Inch, 9pc.	\$38.70



Miniature Open End Wrench Sets

Heads with 15° and 80° angles. Inch sizes: 7/32", 15/64", 1/4", 9/32", 5/16", 11/32", 3/8", and 7/16". Metric sizes: 5.5, 6, 7, 8, 9, 10 and 11mm.

Part No.	Description	Price
119-045	8-pc Inch Wrench Set	\$26.55
119-046	7-pc Metric Wrench Set	\$30.95



18-Piece Inch/Metric Combination Wrench Set

Contains a set of inch sizes (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16" and 3/4") and a set of metric sizes (10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm and 18mm). Comes packed in hinged, blow-molded plastic carrying case. Case separates at hinge point to allow use of either set separately. Closed case measures 13.5" x 11" x 2.5" and fits in most standard toolbox drawers.



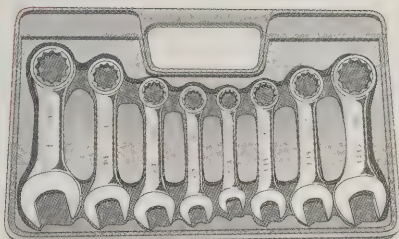
Part No.	Description	Price
407-716	Inch/Metric Comb. Wrench Set	\$165.90

New

8-PC Stubby Combination Wrench Set

Designed For Tight Spaces Conventional Wrenches Cannot Reach

Precision machined 15" open and 12pt box ends. Made of drop forged carbon steel that has been heat-treated and chrome-plated and buffed to a mirror polish. Set includes: 7/16", 1/2", 9/16", 5/8", 11/16", 15/16" and 1". Comes complete with snap-in molded plastic case.



Part No.	Description	Price
425-519	8-PC Stubby Combination Wrench Set.	\$20.83

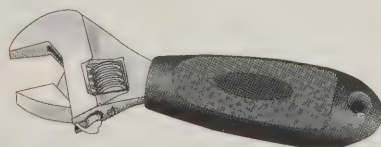
New

Stubby Adjustable Wrench

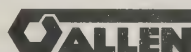
Stubby Handle is Ideal for Tight Areas

- Wide jaw opens to 1"
- Drop-forged heat treated steel
- Chrome plated for durability

Offers superior strength and comfort.

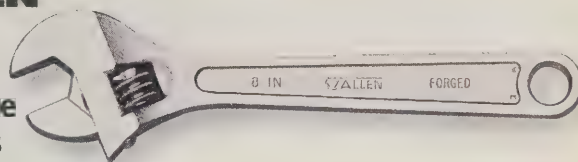


Part No.	Jaw Capacity	Price
425-520	1"	\$8.06

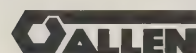


Adjustable Wrenches

Chrome-alloy steel, hot drop-forged. Ground jaws and accurately milled knurl. Triple-chrome-plated finish. Exceeds all federal specs for hardness and strength.

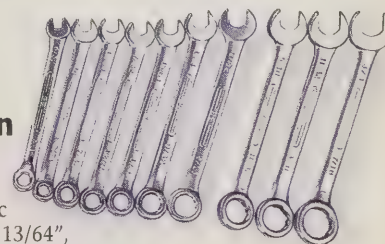


Part No.	Length	Jaw Capacity	Price
119-029	4"	1/2"	\$13.95
119-030	6"	3/4"	\$18.10
119-031	8"	15/16"	\$16.95
119-032	10"	1-1/8"	\$22.60
119-033	12"	1-5/16"	\$35.75



10-Piece Miniature Combination Wrench Sets

Sets are available in Inch or Metric sizes. Inch set includes: 5/32", 3/16", 13/64", 7/32", 15/64", 1/4", 9/32", 5/16", 3/8", 7/16". Metric set includes: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm.



Part No.	Description	Price
410-133	Wrench Set Inch sizes	\$26.75
410-134	Wrench Set Metric sizes	\$26.25



Combination Wrenches

Made in the USA from high grade alloy steel. Nickel-chrome finish.

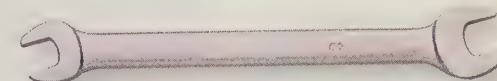


Part No.	Dimensions (Inches)	Price
191-826	1/4" x 1/4"	\$5.50
118-990	5/16" x 5/16"	\$5.35
118-991	3/8" x 3/8"	\$5.45
118-992	7/16" x 7/16"	\$6.25
118-993	1/2" x 1/2"	\$6.80
118-994	9/16" x 9/16"	\$6.80
118-995	5/8" x 5/8"	\$8.10
118-997	3/4" x 3/4"	\$9.45



Open End Wrenches

Made in the USA from high grade alloy steel. Nickel-chrome finish.



Part No.	Dimensions (Inches)	Price
130-352	3/16" x 1/4"	\$5.95
191-362	1/4" x 5/16"	\$5.75
119-011	5/16" x 3/8"	\$6.05
119-012	3/8" x 7/16"	\$6.05
119-013	7/16" x 1/2"	\$7.10
119-014	1/2" x 9/16"	\$6.80
119-015	9/16" x 5/8"	\$7.85



JENSEN®
Lifetime Guarantee

14-Piece Inch and Metric Socket Sets

- 1/4" drive
- Quick-release ratchet

Chrome-plated steel sets feature a 5-1/2" long quick-release ratchet, a 6" long spinner handle, and 3" and 6" long extensions. Inch set includes 6-point sockets in the following sizes: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", and 1/2". Metric set includes 6-point sockets in the following sizes: 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, and 12mm. Includes vinyl boot and steel case.

Part No.	Description	Price
354-105	14-Piece Inch Socket Set	\$30.55
354-814	14-Piece Metric Socket Set	\$31.60

JENSEN®
Lifetime Guarantee

23-Piece Inch Socket Set

- 1/4" and 3/8" drive

Quality, comprehensive set at an economical price. Includes 3/8" drive ratchet, 3" and 6" long 3/8" drive extensions, 1/4" drive spinner handle, seven 3/8" drive 12 pt. sockets (3/8 to 3/4"), three 1/4" drive 8 pt. sockets (1/4, 5/16, 3/8"), six 1/4" drive 6 pt. sockets (3/16 to 11/32"), 3/8" drive (5/8") spark plug socket, 3/8" drive to 1/4" drive adapter and metal storage box with positive latch.

Part No.	Description	Price
997-038	1/4 - 3/8" Drive Inch Socket Set, 23pc.	\$50.00

JENSEN®
Lifetime Guarantee

28-Piece Inch and Metric Socket Set

- 1/4" drive
- Quick-release ratchet
- Standard and deep sockets

Contains 1/4" drive, quick-release ratchet, 3" extension, 6 deep sockets, 6 pt.: 1/4, 9/32, 5/16, 11/32, 3/8, 7/16"; 10 each standard length, 6 pt. sockets: 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2"; 10 each metric sockets, standard length, 6 pt.: 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm. Molded plastic case.

Part No.	Description	Price
185-227	28-Piece Inch/Metric Socket Set	\$45.90

STANLEY

151-Piece Professional Grade Mechanics Tool Set

Set Comes Fully Assembled and Ready To Use

Set includes: 1/4", 3/8", and 1/2" drive quick-release pear head ratchets, 2 extensions, 61 sockets, 28 deep sockets, 12 full-polish professional style wrenches, 12 nut drivers, 7 bits and 26 additional tools.

Part No.	Model	Description	Price
424-104	89-806	151-Piece Professional Grade Mechanics Tool Set	\$129.65

82-Piece Standard and Metric Drive Set

1/4" Drive Sockets

12-Point (3/16-1/2")
6-Point (5/32-1/2")
6-Point Deep (1/4-5/16")
6-Point Metric (4-6mm)
12-Point Metric (7-13mm)
Ratchet

3/8" Drive Sockets

6-Point (3/8-13/16")
12-Point (3/8-13/16")
12-Point Deep (3/8-9/16")
6-Point Metric (9-19mm)
12-Point Metric (9-19mm)
6-Point Spark Plug (5/8")
Ratchet, 3" Extensions

1/2" Drive Sockets

12-Point (1/2-13/16") Ratchet

Part No.	Description	Price
424-190	Inch/Metric Socket Set, 82pc.	\$322.65

50-Piece Combination Socket Set

1/4" Drive: 6-point sockets (5/32-3/16"), 12-point sockets (7/32-1/2"), 6-point metric sockets (4-6mm), 12-point metric sockets (7-13mm), reversible ratchet, socket driver and 3" extension.

3/8" Drive: 12-point sockets (3/8-13/16"), 6-point sockets (1/4-3/8"), 12-point deep sockets (3/8-5/8"), 12-point metric sockets (10-19mm), reversible ratchet and 3" extension. Vinyl zipper storage pouch included.

Part No.	Description	Price
424-189	50 Piece Combination Socket Set	\$196.55

Original JENSEN Multi-Tool Kit Designs

You'll find hundreds of uses for these handy, versatile kits. They contain a variety of tools to meet your equipment maintenance needs. Each of these

comprehensive kits weighs next to nothing and can easily be carried with the convenient built-in belt loop. All full-size multi-tools will fit our holsters.



GERBER
LEGENDARY BLADES

Multi-Tool Kit II

Featuring Gerber Multi-Lock

Part No.	Description	Price
1-365BL	Multi-Lock Tool Kit, Blue Pouch	\$101.00
1-365BK	Multi-Lock Tool Kit, Black Pouch	\$101.00
1-365RD	Multi-Lock Tool Kit, Red Pouch	\$101.00
1-365MRD	Multi-Tool Kit II, Metric, Red Pouch	\$101.00
216-365NV	Pouch only, Blue	\$13.00
216-365BK	Pouch only, Black	\$13.00
216-365	Pouch only, Red	\$13.00

Multi-Lock Includes:

Blunt nose pliers w/cutter
File
Serrated sheepfoot knife blade
Flathead screwdrivers (3)
#1 Phillips screwdriver
Drop point blade
Can/bottle opener
Ruler, inch/metric

Additional Items in Kit:

3/16-1/2", 1/4" drive sockets (9)
1/4" hex bits, two slotted & two Phillips
3" extension
1/4" hex to 1/4" square adapter
1/4" hex mini ratchet
Mini Maglite
Cordura Plus pouch
w/belt loop, 6-1/2 x 4-1/2"



SOG

Multi-Tool Kit I

Featuring SOG Paratool

Part No.	Description	Price
1-854	Multi-Tool Kit I, Blue Pouch	\$96.90
1-854BK	Multi-Tool Kit I, Black Pouch	\$96.90
1-854RD	Multi-Tool Kit I, Red Pouch	\$96.90
216-854	Pouch only, Blue	\$13.00
216-854BK	Pouch only, Black	\$13.00
216-854RD	Pouch only, Red	\$13.00

Paratool Includes:

Needle nose pliers
w/three gripping surfaces
Wire cutter
3" straight point knife blade
3" serrated sheepfoot knife blade
Flathead screwdrivers (3)
#1 Phillips screwdriver
Can/bottle opener

Awl

Coarse/fine file
Measuring scale

Additional Items in Kit:

Mini Maglite
Mini 4-in-1 screwdriver
w/two slotted/Phillips bits
Cordura Plus pouch
w/belt loop, 6-1/2 x 4-1/2"

LEATHERMAN
TOOL MAKERS SINCE 1983

Multi-Tool Kit V

Featuring Leatherman Crunch



Part No.	Description	Price
419-372	Multi-Tool Kit V, Black Pouch	\$115.00
216-854BK	Pouch only, Black	\$13.00
419-757	Optional Quick-release Waist Belt	\$6.95

Crunch Includes:

Serrated blade
bottle opener
hex bit driver
wood/metal file
hard-wire cutter
locking pliers
Inch/metric rule
Phillips screwdriver

slotted screwdriver

wire cutter

wire stripper

Additional Items in kit:

Mini-4-in-1 screwdriver
w/two slotted/Phillips bits
Mini-Maglite Flashlight
Cordura Plus pouch with belt loop,
6-1/2 x 4-1/2"

LEATHERMAN
TOOL MAKERS SINCE 1983

Multi-Tool Kit III

Featuring Leatherman Super Tool



Part No.	Description	Price
1-228BK	Multi-Tool Kit III, Black Pouch	\$115.00
216-228	Pouch only, Black	\$11.00
419-757	Optional Quick-release Waist Belt	\$6.95

Super Tool Includes:

Needle nose pliers
Regular pliers w/wire cutter
Clip point & serrated knife blades
Wood/bone saw
Metal/wood file
9" ruler
Can/bottle opener
Screwdriver blades (4)

Wire stripper

Awl punch

Additional Items in Kit:

Leatherman Tool adapter for
1/4" hex drive bits
Hex drive bits (6)
Mini Maglite
Cordura Plus pouch
w/belt loop, 6-1/2 x 3"



Multi-Function Pocket Tools

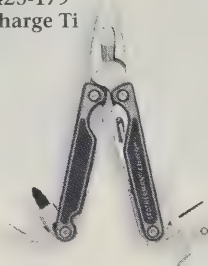
Leatherman pocket tools rank among the finest in the world due to rigorous design tolerances and attention to detail. Highest quality stainless-steel construction. Each tool is carefully finished to ensure smooth operation and corrosion resistance. Individual components are heat-treated to appropriate hardness for their specific use. Precision ground slotted screwdrivers and proprietary-design Phillips-type screwdrivers modified to fit both #1 and #2 fasteners.

25-year manufacturer's warranty. Order your Leatherman tool from the table below based on your preferred features/components.

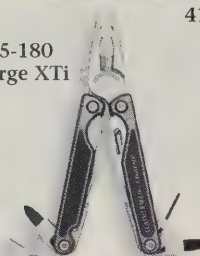
***183-984 Tool Adapter™** (also included in 419-610 combo) fits most Leatherman tools (see chart below for compatibility). To attach, insert between handles and squeeze handles closed for secure driving of all 1/4" hex drive bits. Straight, 45 and 90-degree lock positions. Includes adapter, #0, #3 Phillips, #1, #2 Robertson (square) T-15 Torx®, #8-10 Slotted bits and clip-on carrying case.

Part No.	Description	Size	Price
425-176	Leatherman Fuse™	6-1/4" x 4"	\$44.10
425-177	Leatherman Kick™	6-1/4" x 4"	\$33.30
419-369	Leatherman SuperTool 200	7" x 4-1/2"	\$72.00
183-983	Leatherman Micra Tool	4" x 2-1/2"	\$28.05
183-984	Leatherman Tool Adapter*	3-1/4"	\$26.95
228-301	Leatherman Combo (228-603 & 228-650)	-	\$96.90
425-178	Leatherman New Wave®	6-1/4" x 4"	\$78.30
425-179	Leatherman Charge Ti™	6-1/4" x 4"	\$111.60
425-180	Leatherman Charge XTi™	6-1/4" x 4"	\$111.60
228-680	Leatherman Crunch	6-1/4" x 4"	\$96.75
425-181	Leatherman Blast™	6-1/4" x 4"	\$55.80

425-179
Charge Ti

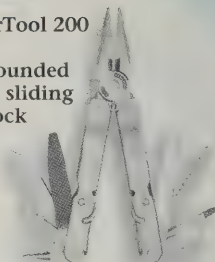


425-180
Charge XTi

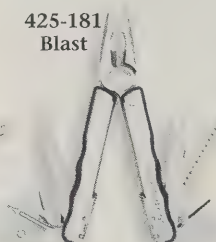


419-369 SuperTool 200

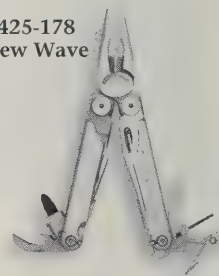
Now with rounded handles and sliding blade lock



425-181
Blast



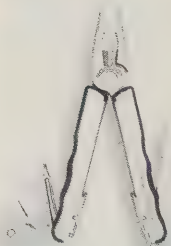
425-178
New Wave



183-983
Micra



228-680
Crunch



425-176
Fuse

425-177
Kick



183-984
Tool Adapter

Description Part No.	Fuse® 425-176	Kick® 425-177	SuperTool 200® 419-369	Micra® 183-983	New Wave® 425-178	Charge Ti™ 425-179	Charge XTi™ 425-180	Crunch® 228-680	Blast™ 425-181
Awl/Punch			✓						
Blade, Clip Point 154CM			✓			✓	✓		
Blade, Clip/Drop Point	✓	✓	✓	✓	✓	✓	✓		✓
Blade, Serrated			✓		✓	✓	✓		
Blade, Straight/Serrated								✓	
Bottle Opener								✓	
Can/Bottle Opener	✓	✓	✓		✓	✓	✓		✓
Clip					✓	✓	✓		
Contoured Handle	✓	✓							✓
Crimper			✓				✓		
Cutting Hook							✓		
Driver, Hex Bit						✓		✓	
File, Cross-Cut						✓	✓		
File, Diamond-Coated						✓	✓		
File, Nail				✓	✓	✓	✓		
File, Wood/Metal	✓		✓		✓	✓	✓	✓	✓
Hard Wire Cutter	✓	✓	✓		✓	✓	✓	✓	✓
Lanyard Attachment	✓	✓		✓	✓	✓	✓	✓	✓
Pliers, Gripping	✓	✓	✓		✓	✓	✓	✓	✓
Pliers, Locking								✓	
Pliers, Needle Nose	✓	✓	✓		✓	✓	✓		✓
Rule Inch/Metric	✓	✓	✓	✓	✓	✓	✓	✓	✓
Saw			✓		✓	✓	✓		✓
Scissors	✓	✓		✓	✓	✓	✓		✓
Screwdriver, Phillips	#1	#1	#1	#1	#1-2	#1-2	#1-2	#1	#1
Screwdriver, Slotted	2	2	3	2	2	2	3	3	3
Sheath, Leather	✓	✓	✓		✓	✓	✓		
Titanium Handles						✓	✓		
Tweezers				✓					
Wire Cutter	✓	✓	✓		✓	✓	✓	✓	✓
Wire Stripper	✓	✓	✓		✓	✓	✓	✓	✓



Swiss Army Cyber Tool

34 Essential Tools for Computer and Electronics Repair

Tools include: Large and small knife blade, bit wrench, bit case (bits include: 5mm Hex Socket, 4mm Hex Socket, #8, #10 and #15 Torx, #2 Phillips, 4mm hex, 4mm slotted, and #0 and #1 Pozidrive), Ball point pen and DIP switch setter (use pen), pliers, wire cutter, wire crimper, scissors, can opener, 3mm and 6mm screwdrivers, bottle opener, wire stripper, reamer, sewing eye, corkscrew, hook, mini screwdriver, straight pin, keyring, toothpick and tweezers.

Part No.	Description	Price
424-511	Swiss Army Cyber Tool	\$78.00



51-400
Compact Sport
Multi-Plier



Gerber Multi-Function Pocket Tools

Finest-quality stainless steel construction. One-handed opening locks the plier head with a simple flick of the wrist. Components lock securely and release easily with slide lever. Independent tool rotation allows access to one tool without others following it out. Smooth non-pinching handles.

Part No.	Description	Open-Closed	Price
419-774	MP600-Pro, Blunt Nose	6-1/2" - 5"	\$76.95
51-400	Compact Sport Multi-Plier	4-1/2" — 5-3/4"	\$54.60

419-774
MP600-Pro
Blunt Nose

Description Part No.	Blunt Nose 51-801	Sport Multi-Plier 51-400
Bit Coupler		
BitHolder		
Bit, Phillips		
Bit, Slotted		
Blade, Clip/Drop Point	✓	✓
Blade, Serrated	✓	
Can/Bottle Opener	✓	✓
Crimper	✓	✓
File	✓	
Lanyard Hole	✓	
Pliers, Blunt Nose	✓	
Pliers, Needle Nose		✓
Pouch, Nylon	✓	✓
Rule	✓	✓
Screwdriver, Phillips	#1	#1
screwdriver, Slotted	3	3
Wire Cutter	✓	✓

854-031

SOG® Multi-Purpose Tools

- Factory lifetime warranty
- Stainless steel construction

SOG multi-purpose tool scombine design creativity, traditional hand craftsmanship with the strongest steels and finest materials. Well balanced tools with a precision feel, ideal for professional servicemen. (USA)

Part No.	Description	Open-Closed	Price
854-031	Paratool	6-3/8" — 4"	\$67.30
854-060	PowerLock Multi-Purpose Tool	4-5/8" — 7"	\$78.05

854-060

Description	Paratool 854-031	PowerLock 854-060
Awl	✓	
Blade, Drop Point	✓	✓
Blade, Serrated	✓	✓
Can/Bottle Opener	✓	✓
Chisel		✓
File, Wood/Metal	2	✓
Lanyard	✓	
Pliers, Bunt Nose		✓
Pliers, Gripping	✓	✓
Pliers, Needle Nose	✓	✓
Pouch, Nylon	✓	
Pouch, Cordura		
Pouch, Leather		✓
Rule, Inch/Centimeter	✓	✓
Saw, Double Tooth		✓
Scissors		✓
Screwdriver, Phillips	1	1
Screwdriver, Slotted	3	3
Square Drive		
Wire Cutter	✓	✓
1/4" Hex Driver		✓



Juice™ Multi-function Pocket Tools

Available in five unique models, each with its own distinctive color, Juice combines multiple features with a smaller size and contoured shape to make it fit perfectly in your professional and everyday life. Smooth anodized handles. 25-year manufacturer's warranty.

Part No.	Color	Description	Price
228-700	Red	Juice C2	\$56.10
228-710	Orange	Juice S2	\$56.10
228-720	Yellow	Juice KF4	\$71.40
228-730	Blue	Juice CS4	\$71.40
228-740	Purple	Juice XE6	\$87.75

Feature/Model	C ₂ Red	S ₂ Orange	KF ₄ Yellow	CS ₄ Blue	XE ₆ Purple
Pliers	X	X	X	X	X
Straight Knife	X	X	X	X	X
Wire Cutters	X	X	X	X	X
Hard-wire Cutters	X	X	X	X	X
X-small Screwdriver	X	X	X	X	X
Small Screwdriver	X	X	X	X	X
Med/Lrg Screwdriver	X	X	X	X	X
Phillips Screwdriver	X	X	X	X	X
Lanyard Attachment	X	X	X	X	X
Can/Bottle Opener	X	X		X	X
Corkscrew	X			X	X
Scissors		X		X	X
Saw			X	X	X
Awl			X	X	X
Serrated Knife			X		X
Diamond File			X		X
Ruler			X		

Model 10-989

Model 10-099

Model 10-499

Model 10-175



Utility Knives

A Selection of Retractable Utility Knives from the Industry Leader

Model 10-989 features a die-cast aluminum body that swivels open for fast, easy blade changes.

Model 10-499 has an aluminum body with a flip-down rear compartment for blade storage, and includes a string cutting notch.

Model 10-099 features a lightweight, die-cast aluminum body that allows for blade storage.

Model 10-175 has a half-zinc, half-plastic body, with blade storage and an interlocking nosepiece that prevents spreading.

Models 10-989, 10-499, and 10-175 come complete with three heavy-duty blades.

Part No.	Model	Description	Length	Price
184-000	10-989	Swivel-Lock® Utility Knife	7"	\$5.70
412-128	10-499	Quick Change Utility Knife	6"	\$5.15
185-099	10-099	Classic 99® Utility Knife	6"	\$3.55
185-175	10-175	Retractable Blade Utility Knife	6-1/8"	\$3.15
185-921	11-921	Heavy-Duty Replacement Blades, Package of 5	—	\$1.80

SOG® AutoClip®

- Stainless steel blade
- Available straight or serrated

A whole new concept in folding knives. Fast opening, light-weight and affordable. Features the patented adjustable tension mounting clip for various belt thicknesses, solving the problem of conventional clips. One hand opening operation. Locking blade.

Part No.	Description	Blade Style	Size	Price
854-036	AutoClip	Smooth	8-1/4"	\$42.35
854-039	Mini Auto Clip	Smooth	6-3/4"	\$34.85



Lifetime Guarantee

Electrician's Knife/Driver

A knife and a screwdriver. Positive lock holds screwdriver blade open. Blade has edge for scraping insulation. 2 3/4" carbon steel blades. Optional top grain cowhide Knife Sheath.

Part No.	Description	Open-Closed	Price
59-929	Electrician's Knife/Driver	6-1/2" — 3-3/4"	\$14.95
224-344	Leather Knife Sheath	—	\$4.95



SportUtility™ Knife

Utility knife and folding blade in one handy tool. Features 420 stainless-steel folding lock back blade with thumb stud for one-handed opening. Retractable utility knife. Comfortable rubber grip. Includes nylon belt sheath and three utility blades.

Part No.	Description	Price
865-8100	SportUtility Knife	\$16.25



PELICAN

Super MityLite®/PeliKnife™ Bonus Pack

Features super-bright 6000 candlepower xenon lamp. FM, CSA and non-incendive CENELEC approved. PeliKnife lock-back knife with 1-7/8" hollow ground stainless-steel blade. Strong, lightweight composite handle with key chain ring. Includes two AAA batteries.

Part No.	Description	Price
432-980	Super MityLite/PeliKnife Bonus Pack	\$22.00



Knife Chest

Fitted wood chest with three precision knives (light, medium, and heavy duty) and ten assorted blades neatly held in lid by magnetic strip.

Part No.	Description	Price
191-828	Knife Chest	\$22.40



X-ACTO

Precision Knife with No-Slip Grip

Improved User's Safety

4-1/2" rubber coated handle has a unique anti-roll design. A center barrel blade release ensures safe and easy blade changes. Comes with high impact plastic safety cap and #11 blade.

Part No.	Description	Price
402-825	Precision Knife	\$5.85
119-296	Replacement Blades Pkg/5	\$2.25

X-ACTO

Precision Knife

Interchangeable Blades for Many Applications

5" aluminum handle. Comes with high impact plastic safety cap and #11 blade.

Part No.	Drill Down Description	Price
119-336	Precision Knife	\$3.35

Replacement Blades

Interchangeable Blades for Many Applications

Part No.	Style	Package QTY	Price
175-764		5	\$3.50
119-361		100	\$58.65
119-296		5	\$2.25
119-362		100	\$28.95
119-364		100	\$28.55
150-571		5	\$2.25
119-365		100	\$34.65

X-ACTO

Medium-Duty Precision Knife

5" aluminum handle. Comes complete with high-impact plastic safety cap and #2 blade.

Part No.	Style	Description	Price
119-337	3002	Medium-Duty Knife	\$5.05

Replacement Blades for Medium and Heavy-Duty Knives

Part No.	Style	Package QTY	Price
160-108		5	\$2.50
119-366		5	\$38.70
175-765		5	\$2.50
119-367		100	\$38.70
119-322		5	\$4.35
119-368		100	\$60.15
160-105		5	\$2.25
119-369		100	\$34.65
119-329		5	\$7.65

STANLEY

Quick-Point™ Snap-Off Blade Knife

One piece reinforced plastic body features a pocket clip and a locking slide. Snap-off blade has 13 cutting points. Knife is 5-1/8" long.

Part No.	Description	Price
185-300	Quick-Point™ Knife	\$3.00
185-310	Replacement Blades, Package of 3	\$1.55

STANLEY

Razor Blades

Single-edge razor blades measure 1-1/2" long x .009" thick.

Part No.	Description	Price
119-333	Package of 10 Blades	\$1.75
119-305	Package of 100 Blades	\$4.95

X-ACTO

Heavy-Duty Precision Knife

4-1/2" molded handle with chuck-type collet to lock blade. Comes with #19 blade.

Part No.	Style	Description	Price
424-128	3205	Heavy-Duty Knife	\$5.70

X-ACTO

Push-Button Knife

Blade is kept safely hidden when knife is not in use. Snap it out and it's ready to cut. All metal. Positive lock. Very light. For delicate, accurate cutting.

Part No.	Description	Price
119-348	Push-Button Knife	\$10.80
119-320	Replacement Blades, 5/pk.	\$7.10



New

JENSEN® **MADE IN USA**

Light-Duty Precision Knife and Replacement Blades

Every Knife Includes a Safety Cap

5" long with 4 jaw machined aluminum chuck for secure blade positioning, includes super sharp blade and a snug fitting plastic safety cap for your protection. See replacement blades below.

Part No.	Description	Price
424-581	Light-Duty Precision Knife	\$1.70

Part No.	Style	Package QTY	Price
424-570		5	\$1.90
424-989		100	\$31.00
424-550		5	\$1.30
424-552		100	\$17.25
424-563		5	\$1.30
424-556		100	\$18.00
424-562		5	\$1.90
424-990		100	\$37.00



New

JENSEN® **MADE IN USA**

Medium-Duty Precision Knife and Replacement Blades

Every Knife Includes a Safety Cap

5" long with 4 jaw machined aluminum chuck for secure blade positioning, includes super sharp blade and a snug fitting plastic safety cap for your protection. See replacement blades below.

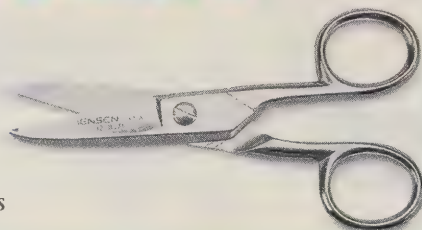
Part No.	Description	Price
424-557	Medium-Duty Precision Knife	\$2.30

Part No.	Style	Package QTY	Price
424-558		5	\$1.50
424-568		100	\$23.50
424-991		5	\$1.50
424-992		100	\$23.50
424-574		5	\$2.00
424-993		100	\$33.00
424-571		5	\$1.40
424-994		100	\$24.00
424-995		5	\$2.35
424-996		100	\$38.00



JENSEN®

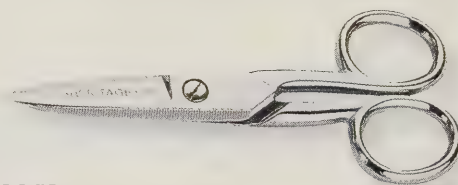
Lifetime Guarantee



Electrician's Scissors

- Double stripping notches
- 5-1/4" long

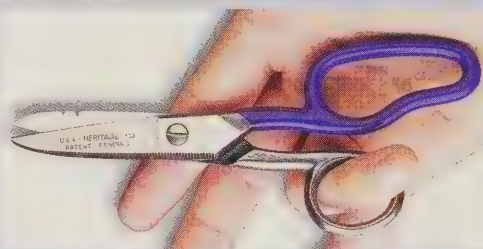
Part No.	Description	Price
14-467	Smooth Blade	\$10.75
320-175	Serrated Blade	\$12.10



Electrician's Scissors

General purpose, rugged, heavy-duty construction. Outside blade edges serrated. Straight blade. Overall length 5". Blade length 1-3/4".

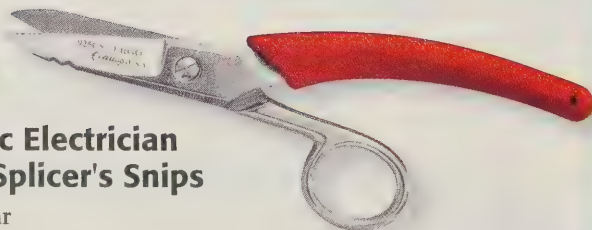
Part No.	Description	Price
119-390	Electrician's Scissors	\$8.55



Low Fatigue Electrician's Snips

Finally an electrician's scissor which isn't painful to use. Unique large, padded ring adds leverage and spreads pressure. Fits the hand better for less fatigue. New ice-tempered stainless steel construction means no rust, peeling, discoloration, irritation. Serrated with strip notches.

Part No.	Model	Description	Price
458-150	150	Low Fatigue Electrician's Snips	\$15.75



Ergonomic Electrician Scissors/Splicer's Snips

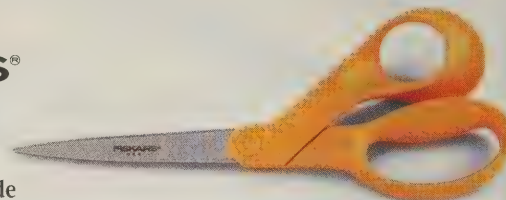
- Trims kevlar

New ergonomic snip for linemen and installers. One blade features ergonomically shaped, cushioned palm rest and the other blade has the traditional ring bow. Evenly distributes more leverage than ordinary snips, with less pressure on user's hand. Serrated blade prevents wire from sliding during cutting. Stripping notches for 19 and 23 AWG wire. Scraper and file on bottom of blade. High quality, precision-ground, cutlery-grade, carbon steel blades with a chrome-over-nickel plating for extra protection against stains and rust.

Part No.	Model	Description	Price
423-372	925CS-ERGO	Ergonomic Electrician Scissors/Splicer's Snips	\$19.36

FISKARS® Right-Handed Shears

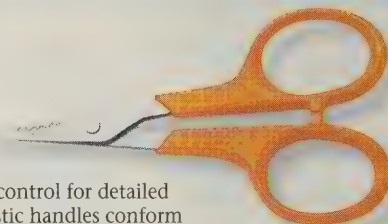
- Stainless steel blade
- 8" long



Part No.	Description	Price
409-693	Shears	\$13.90

FISKARS® 4" Straight Scissors

Compact size provides excellent control for detailed cutting. Ergonomically designed plastic handles conform to the shape of the hand.



Part No.	Model	Blade Length	Price
409-695	9507	1-1/4"	\$11.45

FISKARS® 5" Micro-Tip Scissors

Excellent for precision cutting. Special tip designed for cuts in tight spaces. Ergonomically designed plastic handles conform to the shape of the hand.

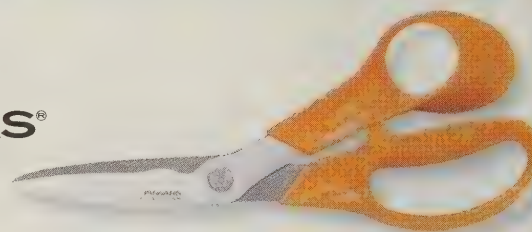


Part No.	Model	Blade Length	Price
409-696	9481	2-1/8"	\$11.65

FISKARS® 8" Utility Shears

- Notch provides extra leverage for cutting

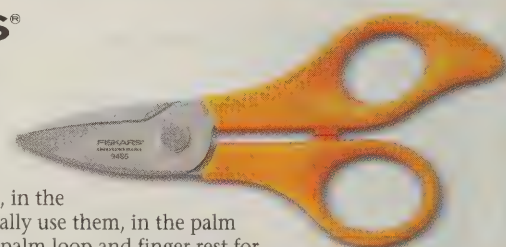
Specially curved and serrated blades. Shears feature Stainless Steel blades and ergonomic thermoplastic handles. Can cut wire up to 18 AWG.



Part No.	Model	Blade Length	Price
409-692	9873	3"	\$13.25

FISKARS® Comfort-Grip DataCom Scissors

Designed for comfort, in the manner technicians actually use them, in the palm of the hand. Form-fitted palm loop and finger rest for greater control. Tapered tips for tight spaces. Stripping notches. Fine serrations for strong gripping. Solid steel rivet. For use with copper or fiber-optic cable.



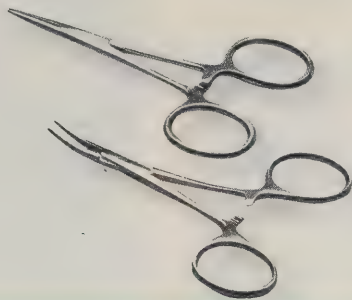
Part No.	Description	Price
51-485	Comfort-Grip Datacom Scissors	\$16.05



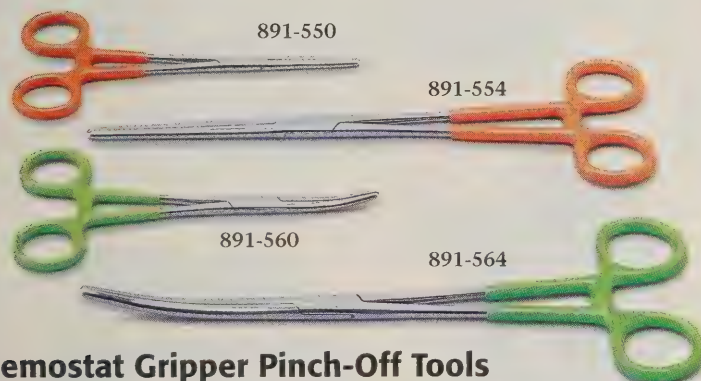
All-Purpose Hemostats

- Available in straight or curved jaws

Stainless steel, box-joint construction, serrated tips and multi-purpose snap locks.



Part No.	Description	Length	Price
23-022	Straight Hemostats Set, 4 pc.	3-1/2, 5, 6, 7"	\$25.50
23-024	Curved Hemostats Set, 4 pc.	3-1/2, 5, 6, 7"	\$26.40
191-193	Straight Hemostats	3-1/2"	\$6.05
191-329	Curved Hemostats	3-1/2"	\$6.40
191-209	Straight Hemostats	5"	\$7.65
191-235	Curved Hemostats	5"	\$7.90
191-229	Straight Hemostats	6"	\$7.90
191-315	Curved Hemostats	6"	\$8.10
191-299	Straight Hemostats	7"	\$8.95
191-309	Curved Hemostats	7"	\$9.15



Hemostat Gripper Pinch-Off Tools

- Stainless steel with coated handles
- Four position lock

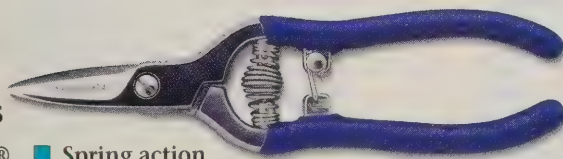
Part No.	Description	Length	Price
891-594	Hemostat Set, 4 pc.	-	\$40.75
891-550	Hemostat Straight	6-1/4"	\$8.00
891-554	Hemostat Straight	10-3/4"	\$14.25
891-560	Hemostat Bent Nose	6-1/4"	\$8.95
891-564	Hemostat Bent Nose	10-3/8"	\$14.50



Ergo Shears

- Trims Kevlar®
- Spring action

Spring action reopens shears automatically to reduce fatigue. Serrated blades, cushion grip handles with lock. Cuts Kevlar, abrasive fiber and fine wire. For both right or left hand use.

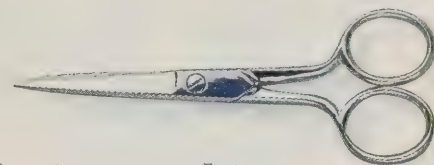


Part No.	Description	Length	Price
458-744	Ergo Shears	6-1/2"	\$27.50



Precision Scissors

Ideal for finish work where fine cuts are necessary. Features straight blades with double sharp points.



Part No.	Overall Length	Blade Length	Price
119-399	5"	2-1/8"	\$19.70
119-400	6"	2-3/4"	\$22.50

FISKARS®

5" Softouch® Pointed-Tip Snips

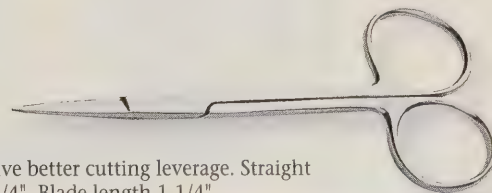
Easy-to-grip handles allow use of the entire hand during precise cutting in tight spaces. Cushion grip absorbs pressure for comfort, and spring action reduces fatigue.



Part No.	Model	Blade Length	Price
409-699	9921	2-1/8"	\$14.10

Slim Scissors

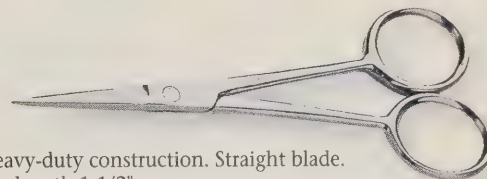
Extra-long handles give better cutting leverage. Straight blade. Overall length 4-3/4". Blade length 1-1/4".



Part No.	Description	Price
423-370	Slim Scissors	\$4.80

Long-Blade Scissors

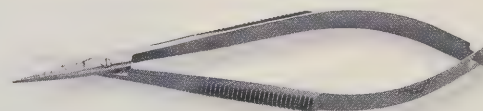
Useful for long cuts. Heavy-duty construction. Straight blade. Overall length 4-1/2". Blade length 1-1/2".



Part No.	Description	Price
423-371	Long-Blade Scissors	\$4.45

EXCELTA Micro-Scissor

Self opening and closing system for cutting soft wires even thinner than hair. Simple squeeze action is ideal for delicate cutting applications, especially under magnification. Precision cutting blades cut 28 AWG and smaller wire. Stainless steel blade hardened to Rockwell hardness of C-50. Overall length is 4-1/2". Blade length is 1/2".



Part No.	Description	Price
406-797	Micro-Scissor	\$33.25



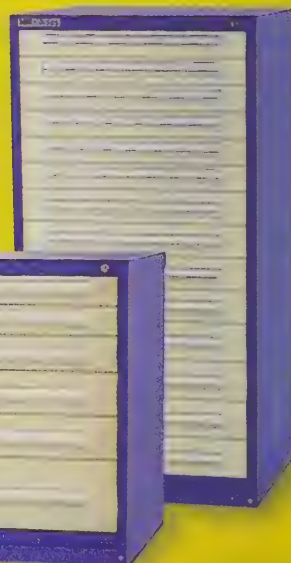
WHEN YOU WANT THE VERY BEST.

Stanley has maintained a reputation for excellence for over 160 years. We continually test, design and improve our products to ensure quality and maximum function. Whether it is a consumer stapler or commercial shelving and storage, maintaining our standing of being the world's best at what we do is important to us and what you expect from a name like Stanley.



STANLEY

Vidmar



STANLEY
PROTO



www.contacteast.com
www.jensentools.com

STANLEY

MAKE SOMETHING GREAT™

**STANLEY****HAND TOOLS**

IntelliLaser™ Pro Laser Line Level/Stud Finder

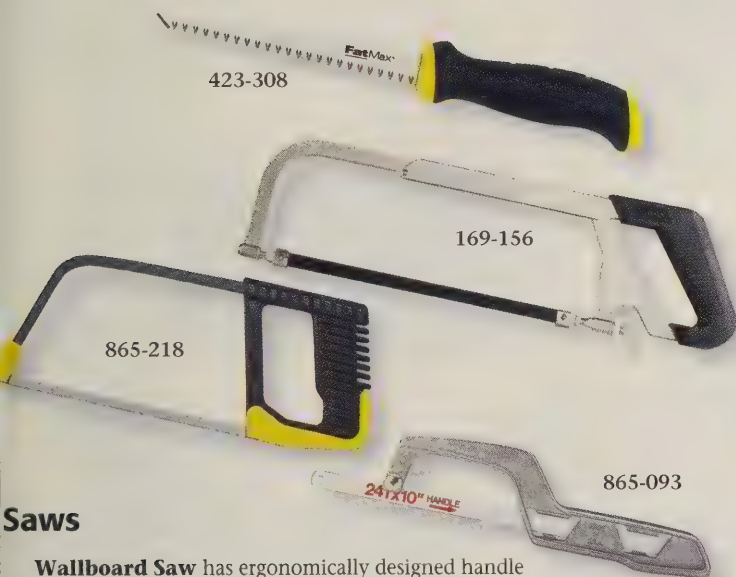
New

3 Tools in 1: It's a Stud Finder, Laser Level, and a Laser Layout Tool

- Laser leveling, layout and stud locating on vertical and horizontal surfaces
- Wood, metal and live wire detection. Detects wood up to 3/4" depth
- 180 degree pivoting laser plane with level and plumb vials
- 20' laser line projection onto work surface with 90 degree squaring
- Spring loaded pivoting laser with 45 degree locking detents
- Two self contained hang pins to mount unit to work surface (vertical or horizontal)
- LCD sensing and mode display with new target graphics
- LED display with continuous live wire detection
- Thumb dial adjustable feet for leveling the laser
- Easy key pad operation
- Ergonomically designed for comfort and grip
- Requires a 9 Volt battery, not included



Part No.	Description	Price
427-152	IntelliLaser™ Pro Laser Line Level/Stud Finder	\$49.99
473-005	9V Alkaline Battery	\$2.85



Saws

Wallboard Saw has ergonomically designed handle and hardened blade with pointed tip for plunge cuts.

Large Hacksaw has a rigid steel frame adjustable for 8-10-12" blades (10" blade included).

Jr. Hacksaw is a compact 6" version for confined areas.

Metal Mini-Hack™ has lightweight, durable aluminum frame. Uses blades from large saw (10" blade included).

Part No.	Description	Blade Size	Price
423-308	FatMax™ Jab Saw, with 6" Blade	6"	\$11.99
169-156	Large Hacksaw	10"	\$10.15
865-218	Jr. Hacksaw	6"	\$5.60
865-093	Mini Hacksaw	10"	\$5.10
191-257	Blades, Coarse, 2pk.	12"	\$2.00
191-259	Blades, Fine, 2/pk.	12"	\$2.00
865-905	Blade for Jr. Hacksaw	6"	\$2.30

FatMax™ Tape Rules

Features an 11 Foot Standout - The Longest in the Industry

Tape rules have a 1-1/4" wide blade that provides greater durability and features easier to read graduations. The blade is Mylar® coated, and includes a three rivet, corrosion-resistant multi-functional hook end that can grab on the side, top, or bottom, and moves to allow for accurate inside and outside measurements. The dual material housing features a comfortable, non-slip ergonomic grip, and an over-size bumper for increased hook life.



Part No.	Description	Price
865-725	FatMax Tape Rule, Inch, 1-1/4" x 25 ft.	\$19.95
865-726	FatMax Tape Rule, Metric, 1-1/4" x 26 ft./8M	\$20.35
421-928	FatMax Tape Rule, Inch, 1-1/4" x 30 ft.	\$24.99
424-905	FatMax Tape Rule, Inch, 1-1/4" x 35 ft.	\$28.99
419-332	FatMax Tape Rule, Inch, 1-1/4" x 100 ft.	\$19.99



Powerlock® Tape Rules

- Mylar coated blades, less friction, longer life

865-430 with 1" blade graduated in 1/16" increments with stud markings in red. 7" blade standout. Positive blade lock.

411-652 with 1" blade graduated in 1/32" increments for the first 12" and 1/16" thereafter on one edge. Other edge is graduated in millimeters. 7" blade standout. Positive blade lock and power rewind.

122-142 with 1" blade graduated 1/16" increments with 16" and 19.2" stud center markings. Positive blade lock.

865-158 with 3/4" blade graduated in 1/16" increments on one edge and millimeters on the other edge. Positive blade lock and power rewind.

122-138 with 3/4" blade graduated in 1/16" increments. Positive blade lock.

23-212 with 1/2" blade marked on one edge in 1/16" increments and millimeters on the other edge. Positive blade lock and power rewind.

185-332 with 1/2" blade graduated on one edge in 1/50" increments for the first 6", and 1/10" thereafter. Other edge graduated in 1/32" and 1/16" respectively. Positive blade lock and power rewind.

122-141 with heavy duty blade.

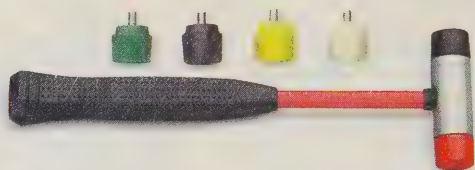
Part No.	Description	Blade Width	Price
865-430	Powerlock Tape, 30'	1"	\$19.90
411-652	Powerlock Tape, 25'/7.5m	1"	\$13.90
122-142	Powerlock Tape, 25'	1"	\$21.40
865-158	Powerlock Tape, 16'/5m	3/4"	\$12.20
122-138	Powerlock Tape, 16'	3/4"	\$18.15
23-212	Powerlock Tape, 12'/3.5m	1/2"	\$9.70
185-332	Powerlock Tape, 12"	1/2"	\$10.15
122-141	Powerlock Tape, 12'	3/4"	\$14.40

HAMMERS & PUNCHES



STANLEY
PROTO

Soft-Face Hammers



No-mar plastic tips protect the work. Hammer has 10-1/4" fiberglass handle. 1" dia. head accommodates two screw-on tips.

Part No.	Description	Color	Price
191-589	Hammer with 6 Tips	All	\$30.60
191-365	Hammer Handle only	-	\$11.25
191-383	Soft Tip	Brown	\$3.70
191-385	Medium Tip	Red	\$3.70
191-371	Tough Tip	Green	\$2.70
191-373	Medium Hard Tip	Cream	\$4.75
191-375	Hard Tip	Black	\$5.00
191-377	Extra Hard Tip	Yellow	\$5.00

STANLEY



Dead Blow Hammers

- Soft face
- Non-sparking
- Lifetime warranty

Steel shot inside hammer head reduces shock, delivers extra punch. Will not mar surfaces or absorb liquids.

Part No.	Description	Price
185-575	Dead Blow Hammer, Slimline, 14 oz.	\$19.35
185-576	Dead Blow Hammer, 18 oz.	\$20.35
185-577	Dead Blow Hammer, 21 oz.	\$24.45



Brass Punch and Cold Chisel Sets

Cold Chisel Set is hand forged of highest quality alloy steels. Conforms to ANSI and ASTM standards. Sizes 1/4, 5/16, 3/8, 1/2, 5/8, 3/4". Fitted vinyl pouch. (USA)

Brass Pin Punch Set for non-marring applications. Knurled handles. Includes sizes 1/4, 3/8, 3/32, 1/8, 3/16, 1/4, 5/16". Fitted vinyl pouch.

Part No.	Description	Price
869-002	Cold Chisel Set, 6pc.	\$21.30
869-003	Brass Pin Punch Set, 7 pc.	\$29.95

"Adel" Metal Nibbler

Notches, trims, and cuts to any size over 7/16". Easy-to-use with no strain or distortion. Tool capacity: 18 gauge steel, 1/16" aluminum, copper, and certain plastics.

Part No.	Description	Price
74-130	Adel Metal Nibbler	\$17.44
74-133	Replacement Punch	\$12.50



STANLEY

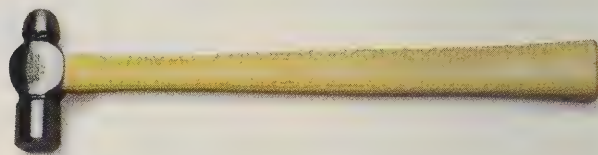
Claw Hammers

- 16 oz. head

Combines strength of fiberglass with a high-impact yellow, polycarbonate alloy jacket to prevent over-strike damage.



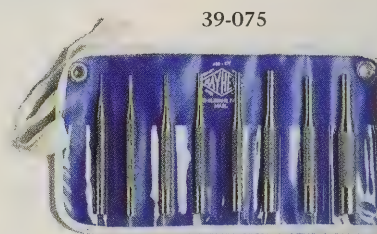
Part No.	Description	Price
185-110	Curved Claw Hammer	\$14.80
185-518	Straight Ripping Claw Hammer	\$14.80



Ball Peen Hammers

Heads are forged, heat-treated, finished and varnished. Hickory handles.

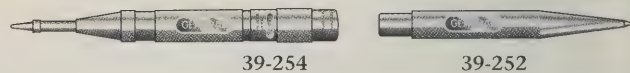
Part No.	Description	Price
125-028	Hammer, 2 oz.	\$14.30
125-033	Hammer, 4 oz.	\$10.55
354-108	Hammer, 8 oz.	\$13.20
354-112	Hammer, 12 oz.	\$13.20
865-116	Hammer, 16 oz.	\$17.30



Pin Punch Set

Set of eight steel punches, centerless ground and heat-treated. 4" long with knurled bodies. Sizes: 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4 and 5/16". Comes complete with vinyl pouch.

Part No.	Description	Price
39-075	Pin Punch Set in Vinyl Pouch	\$27.05



Center Punches

39-252 has 3/32" point. 4" long x 5/16" diameter. **39-254** has internal spring releases to make the impression. 5" long x 1/2" diameter.

Part No.	Description	Price
39-252	Center Punch	\$3.15
39-254	Automatic Punch	\$24.00
125-148	Replacement Point for 39-254	\$3.75



424-968



865-244



Levels

Torpedo Levels are 9" long and feature a durable aluminum frame, top read vial window and magnetic strip for hands-free operation. 865-512 illuminates with the push of a button. Both levels are ideal for pipe and conduit work.

Standard Level is 24" long and is a durable, heavy-duty aluminum I-beam frame with large hand holes. Features extra large top read window and magnetic strip.

Part No.	Description	Length	Number of Vials	Price
37-730	Torpedo Level	9"	3	\$10.95
424-968	Lighted Torpedo Level	9"	3	\$11.70
865-244	Standard Level	24"	3	\$18.85

LaserMark® Gizmo Laser Cross Level with Laserpole

Projects a Vertical (Plumb) Line and/or a Horizontal (Level) Line at the Press of a Button.

- Lightweight, easy-grip, design
- LCD indicator with digital bar graph display
- Audio tone for target identification in noisy, congested areas

Don't worry about leveling screws or level vials; the self-leveling Gizmo Lite ensures accurate results. Simply mount on a Laserpole or place on a table, the floor, a tripod, or any stable surface and turn it on. The heavy duty magnetically dampened compensator eliminates error by quickly self-leveling the lasers. Plus, an out-of-leveling-range sensor triggers the beams to automatically shut off when the unit is moved out of its $\pm 4^\circ$ self-leveling range. Operates on 3 "AA" alkaline batteries. Comes complete with Laserpole, carrying case, wall/tripod mount, instruction manual and a 90 day manufacturer's warranty.

Part No.	Description	Price
425-524	Gizmo Laser Cross Level with Laserpole	\$219.00



CST/berger

Magna Trak® 100-Series Magnetic Locator

Locate Ferrous Objects Underground, Under Water, or in Snow

- Lightweight, easy-grip, design
- LCD indicator with digital bar graph display
- Audio tone for target identification in noisy, congested areas

Locate objects under ground with "High-Tech" magnetic toroidal sensors and patented electronic balancing circuitry. The lightweight Magna-Trak® 100 features simple, waterproof, push-button membrane pad operation with an ergonomic design. The Magna-Trak 100 offers easy battery access and outstanding battery life with a visual reminder when batteries are low. Comes complete with soft carry case and five-year manufacturer's warranty.

Part No.	Description	Price
425-525	Magna Trak®100-Series Magnetic Locator	\$705.00

JENSEN®

Feeler Gauges

- Inch/metric markings

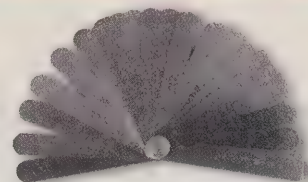
Pen knife blades may be used in or out of the holder. All blades are marked in inch and metric measure.

39-530 has 26 blades; .0015"/.038mm to .025"/.635mm.

14-409 has 11 blades; .0015"/.038mm to .025"/.635mm.

14-407 has 13 blades; .002"/.05mm to .039"/1.0mm.

Part No.	Description	Price
39-530	Feeler Gauge, 26 blades	\$5.45
14-409	Feeler Gauge, 11 blades	\$4.60
14-407	Feeler Gauge, 13 blades	\$4.95

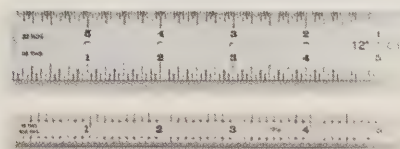


GENERAL®

Flexible Stainless Steel Rules

Satin-chrome finish. Etched black fine graduations. Meets or exceeds federal regulations GGG-R-791F for accuracy. 39-121 calibrated side one: 16ths, 32nds; side two: 32nds, 64ths. All others with 5R calibration: side one: 10ths, 100ths; side two: 32nds, 64ths.

Part No.	Description	Length	Width	Price
39-250	Rule	6"	15/32"	\$5.90
161-424	Rule	18"	3/4"	\$27.15
161-444	Optional 24" Stainless Rule	24"	3/4"	\$37.00



Tempered Stainless-Steel Rulers

Engraved graduations on a no-glare hard-chrome finish for precise readings. Rulers graduated 64ths and 32nds on side one; side two graduated as noted.

Flexible Rulers

Part No.	Side Two Graduations	Length	Width	Price
122-222	8ths & 16ths	6"	1/2"	\$5.60
122-221	10ths & 100ths	6"	1/2"	\$5.30
122-209	10ths & 100ths	12"	1/2"	\$9.05
122-213	10ths & 100ths	18"	3/4"	\$20.30
122-215	10ths & 100ths	24"	3/4"	\$30.90
122-218	1/2mm & 1mm	6"	1/2"	\$7.05
122-217	Decimal Equivalents *	6"	1/2"	\$2.65
122-219	Decimal Equivalents **	6"	3/4"	\$3.80

* w/ Pocket Clip Depth Gage ** w/ Slotted Wire Gage

Rigid Rulers

Part No.	Side Two Graduations	Length	Width	Price
122-225	8ths & 16ths	6"	3/4"	\$6.35
122-212	8ths & 16ths	12"	1"	\$12.65
122-223	10ths & 100ths	6"	3/4"	\$7.45
122-211	10ths & 100ths	12"	1"	\$14.85
122-224	1/2mm & 1mm	6"	1/2"	\$7.45

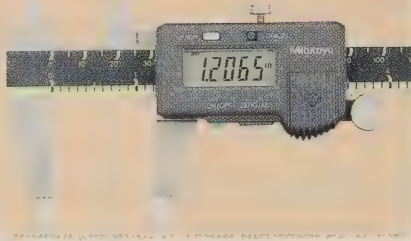


Mitutoyo

Digimatic Electronic Caliper

- Convert instantly from inch to metric
- LCD display and imprinted line scale

This Caliper is ruggedly constructed of stainless steel with no rack, pinion or glass scale to go out of alignment or break. It features both an LCD display and an imprinted line scale for general reference. Linear scale is safely embedded in epoxy. Measures OD, ID, Step and Depth with a resolution of $\pm 0.0005"/0.01\text{mm}$ and can be zero set at any point. Five digit LCD display offers $\pm 0.001"$ accuracy and, at the press of a button, instantly converts from inch to metric, or vice versa. Caliper also features an SPC (Statistical Process Control) output. This can be used to transfer inspection results through an interface unit to a PC, for in depth SPC analysis. Comes complete with carrying case, batteries, instruction manual, and two year warranty.

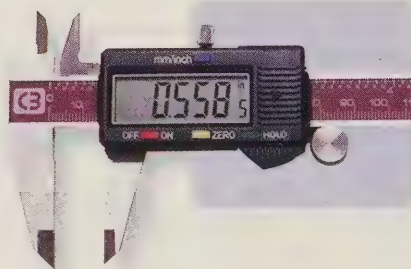


Part No.	Model	Range	Price
122-151	500-171	0-6"/150mm	\$154.00



Electronic Digital Caliper

Electronic digital caliper offers English and Metric measurements that are easy to read. Easy Glide action provides a smooth feel to make accurate measurements to $.001"$. Instant Zero function allows use of efficient "reverse" and "deviation" measurement techniques. Caliper features hardened measurement surfaces, and lockable jaws. Comes complete with spare battery, fitted wooden case, instruction manual, and one year warranty.



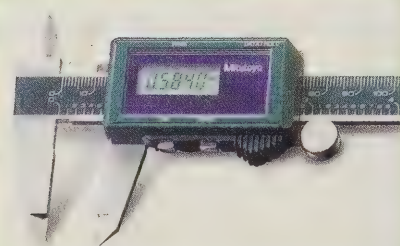
Part No.	Model	Range	Price
409-646	50001	0-6"	\$86.15

Mitutoyo

Solar Powered 6" Digital Caliper

- No dead battery risk

Stores energy and operates up to 3 hours in the dark. 5 digit display, 50 micro inch repeatability, inch/mm conversion, zero set, data hold, automatic turn off. 0 to 6", (0 to 150 mm), 1.6" deep outside jaws, .8" deep inside jaws, and .15" blade for depth and step measurements. Includes plastic case. Two year manufacturer's warranty.



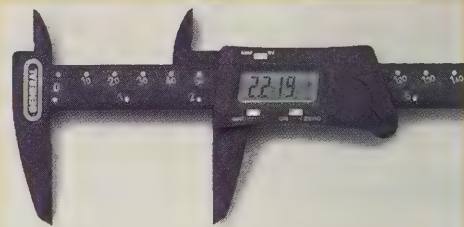
Part No.	Description	Price
861-451	Solar Powered Digital Caliper	\$231.00

GENERAL

6" Digital Caliper

- Fiberglass reinforced polyamide construction

Accurate digital measurements in both inches and mm. Direct reading 0-6"/0-150mm with 0.001"/0.1mm resolution. Measures inside, outside, depth and step.



Part No.	Description	Price
170-954	Digital Caliper	\$91.85



Computerized Calipers

- LCD readout-inch/metric
- Floating zero
- Hold function
- Can be connected to printer

These digital calipers, utilizing a microprocessor, permit fast and accurate inside, outside, depth, and step measurements. Feature inch/metric true conversion, a floating zero for comparative measurements and a hold function to hold display. Limit mode sets upper and lower limits, and automatically indicates over- and under-limit. Peak mode recalls from memory your maximum or minimum measurement. Data output mode permits you to connect caliper to optional printer. The frame and jaws are precision-ground from hardened stainless steel. Calipers come complete with batteries, case, and 1-year warranty.



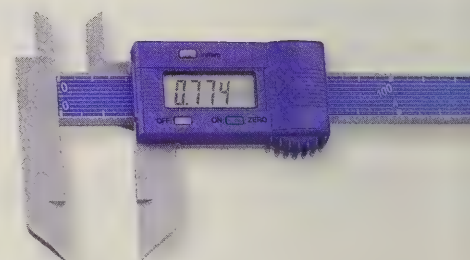
Part No.	Description	Price
409-602	0-6" (0-150mm) Caliper	\$169.25
416-553	0-8" (0-200mm) Caliper	\$288.00

Mitutoyo

Plastic Digital LCD Caliper

- 0 to 6"
- 0.001" resolution

plastic construction makes for durable and lightweight use, and jaws won't mar easily damaged surfaces. Four digit LCD display features resolution to $.001"$, and with the press of a button, instantly changes reading from inch to metric, and back again. Readout can be zeroed at any position along the beam, permitting comparative measurements. Caliper comes complete with batteries.



Part No.	Model	Description	Price
122-254	700-103B	Plastic LCD Caliper	\$40.80



Mitutoyo

MyCal-Lite™ 6" Digital Caliper

■ Stainless steel construction

Inch/metric caliper features large LCD digits for easy reading. Zero point can be set anywhere within measurement range to allow quick comparison measurements. 0-6" (0-150mm) range. 0.001" (0.1mm) resolution. ± 0.005 " (± 0.2 mm) accuracy. Low battery and overspeed audible alarms. Depth bar.



Part No.	Description	Price
861-113	Digital Caliper	\$92.95



6" Inch/Metric Electronic Caliper

High-quality 6" (150mm) digital caliper features selectable inch/metric measurement, thumbwheel for accuracy and ease-of-use. Four measurements: inside, outside, depth and step. Hardened stainless steel. Precision-ground and lapped measuring surfaces. Direct inch-metric conversion. 0.0005" (0.01mm) resolution. Includes case and battery. Assembled in USA with Swiss electronics.

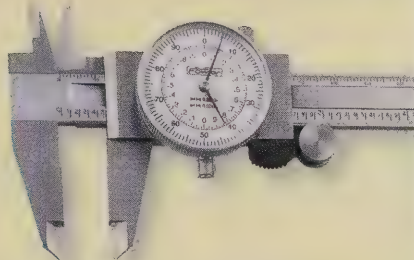


Part No.	Description	Price
66-220	Inch/Metric Electronic Caliper	\$187.50



Inch/Metric Dial Caliper

Dial face reads in both inch (black) and metric (red). Features inside, outside, and depth measurements. Raised sliding surface prevents wear and defacement of graduations. Hardened stainless steel throughout. Comes complete with fitted case.

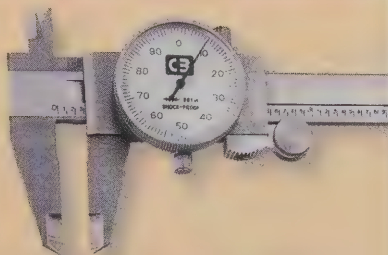


Part No.	Model	Range	Dial Graduations	Price
407-035	52-030-006	0-6"/0-150mm	.001"/.02mm	\$76.50



Dial Caliper

Stainless steel dial calipers offer fast, easy and accurate measurement of outside, inside, step and depth measurement to within .0001". Dial caliper features hardened measurement surfaces, easy glide action, durable screw mounted rack gears, rugged indicators, and jaw lock. Comes complete with fitted wooden case and instruction manual, and a one year warranty.

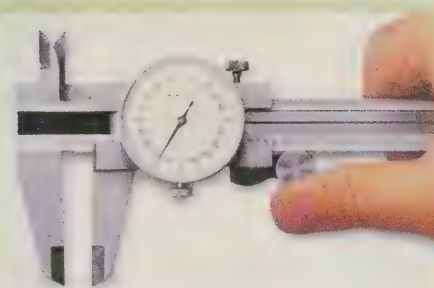


Part No.	Model	Range	Price
409-645	50004	0-6"	\$37.70



6" Dial Caliper

Measures outside, inside and depth in inches on large, easy-to-read dial. 6" measuring range. .001" dial increments. 1.6" jaw depth. Fitted case included.



Part No.	Description	Price
66-526	Dial Caliper	\$66.30



Electronic Digital Micrometers

■ Resolution .0001" (.001mm)

Accurate and easy to use, electronic micrometer features carbide tipped measuring faces, true inch/metric conversion, large, easy to read LCD, microfine graduations, ratchet thimble, and positive lever locking clamp. Includes one year manufacturer's guarantee.



Part No.	Model	Range	Price
409-605	54-811-000	0-1"/0-25mm	\$142.70
409-606	54-811-002	1-2"/25-50mm	\$178.35
409-604	54-811-003	2-3"/50-75mm	\$208.00
409-603	54-811-004	2-3"/50-75mm	\$231.80



High Precision Pin Gauge Set

Fully hardened to 60-62RC and lapped to 10 millionths AA micro-finish. Pin gauges have no sharp corners, come in .001" increments, and are 2" long. Ideal for checking hole size, and go/no-go gauging. Sets come in metal case with every gauge hole clearly marked for size. Traceable to NBS, accuracy is ± 0.0002 ".

Part No.	Description	Price
125-108	Gauge Set .011" to .060" (50 Gauges)	\$95.75
191-736	Gauge Set .061" to .250" (190 Gauges)	\$213.95
190-260	Pin Gauge Handle	\$22.50



Controlled Torque Electronic Screwdrivers

- Silent operation
- No exhausted air - no contamination
- Easy torque adjustment
- Precise torque
- Controlled uniform torque
- Reversible

Advanced electronics and a low-voltage DC motor feature silent operation, electrical safety, and no exhausted air. Ideal for clean-rooms and low-noise areas. Easy external torque adjustment. Motor rotation is stopped the instant a preset torque is reached. 1.5% torque accuracy prevents over and under-tightening. All screwdrivers require a transformer, which must be ordered separately.



In-Line Drivers

All models feature reversible speed (switch-actuated), and come complete with power cord and suspension hook.

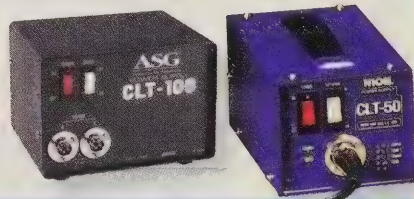
Part No.	Model	Torque	RPM	Length	Weight	Drive	Actuation	Price
115-619	CL4000	5-4.5 lb.in.	1000@30VDC, 670@20VDC	7-1/2"	1.5	1/4" Hex	Lever	\$535.90
115-620	CL4000	5-4.5 lb.in.	1000@30VDC, 670@20VDC	7-1/2"	1.4	Hios	Lever	\$536.65
115-621	A4500	1-6.5 lb.in.	1600@30VDC, 1200@20VDC	7-3/4"	1.7	Hios	Lever	\$562.40
115-622	CL6000	1.7-10 lb.in.	790@30VDC, 500@20VDC	8-1/2"	2.2	1/4" Hex	Lever	\$635.50
115-623	CL6500	1.2-14 lb.in.	910@30VDC, 600@20VDC	9"	2.65	1/4" Hex	Push-to-Start	\$662.60
115-624	CL6500	1.2-14 lb.in.	910@30VDC, 600@20VDC	9"	2.3	1/4" Hex	Lever	\$662.60
115-626	CL7000	2.5-21 lb.in.	750@30VDC, 500@20VDC	10"	2.6	1/4" Hex	Push-to-Start	\$716.90
115-627	CL7000	2.5-21 lb.in.	750@30VDC, 500@20VDC	10"	2.6	1/4" Hex	Lever	\$716.90

CLT-100

CLT-50

Transformers

120VAC input. 20-30 VDC Output. Protected by fuse and breaker. All in-line drivers require a transformer.



Part No.	Model	Amps	Max. No. of Drivers	Output VDC	Price
115-648	CLT-50	2.5	1	20-30	\$237.10
115-647	CLT-100	2.8	2	20-30	\$525.30

Stay-Put Hanger

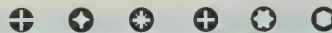
This hanger holds a tool at any desired position. The unit has a 5 ft. cord and a workable range of 8 oz. to 5 lbs. Two optional support brackets are available. Hanger sold separately.

Part No.	Model	Description	Price
115-640	64313	Stay-Put Hanger	\$28.90
115-639	64312	Support Bracket, 38" high, offset 10"	\$44.15
115-641	64315	Support Bracket, 38" high, offset 18"	\$49.40



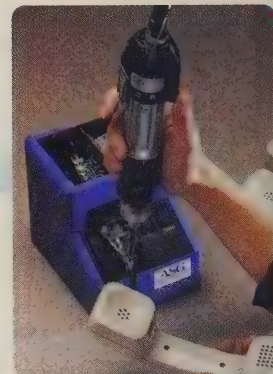
Precision Screw Feeders

- For Ferrous Screws with Head Styles Shown Below



Screw feeders allow you to pick up and drive screws in less than 1/3 of the time that it would take you to hand feed them. Each unit is fully automatic: just dump loose screws into hopper, the dipper scoops them out, aligning them "heads up" in the feeder chute. Then just press the magnetized bit of a screwdriver into the bit guide and snap up the screw. The fastening motion is completed in 2.5 seconds. Feeders are lightweight (2.5 lbs. and 4.5 lbs.), easy to move and require little space on work tables or assembly lines. Screw feeders must be used with special bits described below. Screwdrivers sold separately.

We want to be sure that you buy the right feeder. Please send us a dozen of each type of screw that you want to use and we will select the right feeder for you.



Precision Screw Feeders

Part No.	Model	Max. Screw Size (Slot)	Max. Screw Size (Phillips)	Max. Fastener Dia. (in.)	Min. Length (in.)	Max. Length (in.)	Price
405-759	65204	2.3mm	#2	.0984	.1024	.7086	\$630.00
405-760	65205	2.6mm	#3	.1102	.1184	.7086	\$630.00
405-761	65208	3.0mm	#4	.1299	.1378	.7086	\$630.00
405-763	65215	4.0mm	#6 & #8	.1771	.1811	.7086	\$630.00
405-764	65220	5.0mm	#10	.2087	.2126	.7086	\$630.00
405-765	65221	6.0mm	#12	.2461	.2520	.7086	\$630.00

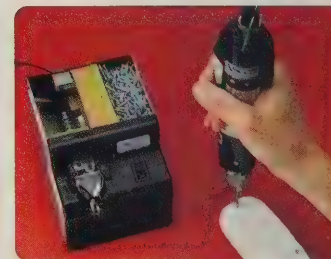
Special Bits for Use with Screw Feeders

These bits differ from standard bits because they are "necked down" to fit into the various guides of each size feeder. If other bits are used (standard 1/4" hex) they will cause damage to the bit guide and void the warranty on the screw feeder. The chart below lists the correct bits to be used with the screw feeders.

Part No.	Model	Point Size	Bit Length	Point Diameter	For Use with Screw Feeder	Price
405-787	65241	0	3"	2.0 mm	65202 65204	\$7.20
405-788	65242	1	3"	2.3 mm	65204 65205 65208	\$7.20
405-789	65243	1	3"	3.2 mm	65208 65215 65220	\$7.20
405-790	65244	2	3"	3.2 mm	65208 65215 65220	\$7.20

Adjustable Precision Screw Feeder

This single feeder accommodates screws from sizes #0 to #10, and handles various sizes of fasteners and complex head shapes. Rail system automatically adjusts and self centers to the appropriate screw size. Vibration control is fully adjustable for all sizes and types of fasteners. Small footprint, as dimensions are only 4.7"L x 4.6"W x 6.1"H. Maximum screw feeding speed of two screws per second. Feeder can also be used with most standard power bits.



Part No.	Model	Max. Screw Size (Slot)	Max. Screw Size (Phillips)	Max. Fastener Dia. (in.)	Min. Length (in.)	Max. Length (in.)	Price
419-708	65430	5.0mm	#10	.2087	.0629	.7086	\$935.00



GOLNEX

Controlled Torque Electronic Screwdrivers

Exclusive Clutch Brake System

- Controlled uniform torque

These drivers feature a Neodymium-Iron-Boron (Nd-Fe-B) DC Motor, which allows the drivers to be more efficient and compact. These 8-1/2" long drivers have a fiberglass reinforced polyethylene housing with a rubber grip. Drivers can operate in either forward or reverse, and feature an exclusive clutch and brake system, which provides controlled uniform torque and eliminates excessive motion. Torque is externally adjustable and drivers feature a tamper-proof locking collar that will prevent the torque setting from being altered. Drivers come complete with 1/4" hex drive collet, heavy duty power cord and a 1-year warranty. Each screwdriver requires one controller, Part No. 411-765, which has a 120VAC input, and must be ordered separately.

Part No.	Model	Description	Torque	RPM	Price
411-761	NF-100	Driver	0-5.0 lb.in.	750	\$524.40
411-762	NF-200	Driver	3.0-12.0 lb.in.	750	\$524.40
411-763	NF-300	Driver	6.0-16.0 lb.in.	1250	\$524.40
411-764	NF-400	Driver	9.0-24.0 lb.in.	950	\$572.70
411-765	NC-N	Controller*	N/A	N/A	\$189.15

*One Required Per Driver



Controlled-Torque Electronic Screwdrivers

Plug Directly into Any 110V outlet

This lever-actuated electronic screwdriver plugs directly into any 110VAC outlet and delivers controlled torque with precise accuracy. AC/DC converter built into the driver body provides DC power to the motor for silent operation (less than 55 decibels). Solid-state circuitry ensures that motor rotation is stopped the moment preset torque is reached, preventing over- and under-tightening. Torque is externally adjusted by the torque nut. Made of impact-resistant polybutylene, this screwdriver features forward and reverse control and has a 1/4" hex drive quick-change collet. Two models to choose from, with two different torque ranges. Both models are 11" long, weigh only 24 oz., plug into any 110VAC outlet, and come complete with 10 ft cord, two Phillips (#1 and #2) and one slotted (3/16") bits, and 1-year warranty.

Part No.	Model	Torque lb. in.	RPM (no load)	Price
130-703	64222	3.5-16	2000	\$817.10
130-704	64224	6.0-26	1200	\$817.10



Brushless Torque-Controlled Drivers

Each Driver Converts From a Lever-Start to Push-to-Start In Seconds

- For standard to medium torque applications
- Brushless motor and magnetic switches provide longer life and cleaner operation
- Higher duty cycle results in minimal heat build-up

These drivers automatically stop when pre-set torque is reached to eliminate over or under tightening. Ergonomically shaped soft texture grips will eliminate user fatigue. Torque is easily adjusted with hex wrench from the side. Tamper-proof torque adjustment is also available. 6 ft. detachable cord.

Part No.	Model	Torque	RPM	Drive	Price
422-530	BL-5000	2-11 lb.in.	1000@30VDC, 680@20VDC	1/4" Hex	\$796.00
425-169	BL-5000	2-11 lb.in.	1000@30VDC, 680@20VDC	4.0mm	\$796.00
423-397	BL-7000	5-21 lb.in.	1050@30VDC, 730@20VDC	1/4" Hex	\$877.90
423-398	BL-7000	5-21 lb.in.	1050@30VDC, 730@20VDC	5.0 mm	\$877.90
423-399	BL-7000HT	5-30 lb.in.	740@30VDC, 500@20VDC	1/4" Hex	\$882.90

T-70 Power Pack

Part No.	Model	Amps	Max. No. of Drivers	Output VDC	Price
423-400	T-70	4.5	1	31	\$293.00



KOLVER ACC Series Direct Plug-In Electric Screwdrivers

Change from Push-to-Start to Push Lever Start at the Flick of a Switch

- Plug Directly into Any 120V Outlet
- Lockable external torque adjustment
- Patented clutch mechanism
- Externally replaceable brushes

Lever or push to start designs constructed of high-impact plastic are ideal for applications where portability is needed. The ACC series disengages the motor from the drive when preset torque is reached, greatly reducing stress on the motor. 1 year warranty.

Part No.	Model	Torque	RPM	Price
429-853	ACC2210	1.75-8.85 in/lbs	950	\$548.25
426-680	ACC2220	6.20-17.70 in/lbs	950	\$548.25
425-189	ACC2222	7.95-17.70 in/lbs	2400	\$548.25
425-190	ACC2230	8.85-26.55 in/lbs	950	\$578.25



Controllers for FAB & Raf Series Electric Screwdrivers

EDU power supply control units act as AC to DC transformers and torque controllers. The electronic control circuit cuts the power supply to the motor, in response to the clutch action, as soon as the pre-set torque has been reached.

427-351 with slow start (ramp) feature, allows up to a 2 second range to reach full RPM, and adjustable speed, which allows up to a 40% reduction in maximum speed.

Part No.	Model	Type	Max. No. of Drivers	Price
422-203	EDU1NS	Lever start/ 67 VA/ 5 pin plug/ single output	1	\$199.52
427-351	EDU1NS/RA	Lever start/ 67 VA/ 5 pin plug/ single output	1	\$291.44
423-379	EDUCLS	Push start/ 67 VA/ 6 pin plug/ single output	1	\$201.94
422-204	EDU2CL	Lever start/ 100 VA/ 2x5 pin plug/ dual output	2	\$301.63
423-380	EDU2CS	Push start/ 100 VA/ 2x6 pin plug/ dual output	2	\$301.63



FAB Series Electric Screwdrivers

All Drivers Are ESD Safe

- Standard hi impact ESD housing
- Lever or push-to-start

The FAB series offers an ergonomic body design to reduce user fatigue. For the ESD-sensitive application, the FAB series screwdrivers are certified to prevent electrostatic discharge according to SP method 2472. The wide torque range along with speed and start options allows you to find the proper tool for your specific application. See 422-198 for pistol grip version.

Part No.	Model	Torque	RPM	Actuation	Price
422-199	FAB05RE	0.44-4.40 in.lbs.	200	Lever	\$387.60
422-472	FAB10RE	0.44-7.10 in. lbs.	1000	Lever	\$426.31
421-876	FAB12RE	1.80-12.40 in. lbs.	1000	Lever	\$458.31
422-198	FAB12PP	1.80-12.40 in. lbs.	1000	Lever	\$533.70
423-376	FAB12PS	1.80-12.40 in. lbs.	1000	Push-to-Start	\$435.10
423-377	FAB18RE	2.65-15.90 in. lbs.	650	Lever	\$433.68
423-378	FAB18PS	2.65-15.90 in. lbs.	650	Push-to-Start	\$447.61





Externally Adjustable Torque Limiting Screwdrivers



Prevents Damage Caused by Over-Tightening

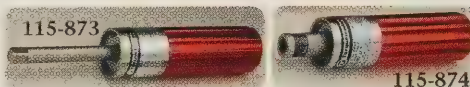
- Fully adjustable with micrometer scale
- Will stay set at desired torque

Torque can be adjusted throughout full range by rotating micrometer scale. When set torque is reached, screwdriver goes into freewheeling condition to prevent overtightening. Limits torque in both right- and left-hand directions.

Spring-loaded locking mechanism ensures that screwdriver stays set at desired reading. Models TS30, TS35, and TS100 have chuck-type collet accepting 1/4" hex bits and adapters, which must be ordered separately. Available with or without Certificate of Calibration.

Model TS100, TS30 and TS35 Torque Ranges		
Model	Range	Increments
TS100	20 to 100 oz.in.	2 oz.in.
TS30	6 to 30 lb.in.	1 lb.in.
TS35	6 to 36 lb.in.	1 lb.in.

Part No.	Model	Certificate of Calibration	Price
115-889	TS100	No	\$215.00
401-423	TS100	Yes	\$230.00
115-890	TS30	No	\$215.00
401-425	TS30	Yes	\$230.00
115-891	TS35	No	\$215.00
401-424	TS35	Yes	\$230.00



Internally Adjustable Torque Screwdrivers

These accurate and adjustable torque-limiting screwdrivers are tamper-proof and accurate to $\pm 3\%$. Torque ranges from 3 in. oz. to 36 in. lb. depending on model. Easily adjustable - simply remove end cap and insert wrench provided. Torque settings are held even under continuous production usage. All screwdrivers can be operated in left and right directions with no loss of accuracy. Lightweight aluminum handles.

Part No.	Torque Range	1/4" Drive	Price
115-873	3 oz. in. to 12 lb. in.	Sq. Male	\$162.40
115-874	3 oz. in. to 12 lb. in.	Hex Female	\$162.40
115-877	8 oz. in. to 36 lb. in.	Sq. Male	\$166.15



Internally Adjustable Torque-Controlled Screwdrivers

- Ergonomic style handle

These aluminum, manual drivers provide precise and repeatable torque, with an accuracy of $\pm 6\%$. The drivers are available in four different torque ranges. Torque is easily adjusted by removing the end cap and inserting the allen wrench which is included with each driver. When applied torque exceeds limits, cam-over torque clutch stops driver. Ergonomic, tri-oval design offers a comfortable, positive grip. All models feature 1/4" female hex drives.

Part No.	Model	Torque	Price
418-639	65104	6-32 oz.in.	\$107.25
418-640	65105	10-100 oz.in.	\$115.80
418-641	65106	1.5-15 lb.in.	\$115.80
418-642	65107	4-40 lb.in.	\$132.00



43-Piece Torque Limiting Screwdriver Kit Range 20 oz.in. to 30 lb.in.



Includes two fully adjustable torque limiting screwdrivers; model TS30 (6 to 30 lb.in.), model TS100 (20 to 100 oz.in.) and the following bits: seven hex sockets — 7/64" (two), 3/32", 3/16" (two), 1/4", and 5/16"; 12 hex keys — 0.028", 0.035" (two), 0.050" (two), 1/16" (two), 5/64" (two), 3/32", 1/8", and 5/32", nine slotted bits — 0.080", 0.100" (two), 0.134" (two), 0.185" (two), 0.214", and 0.250"; five Phillips bits — #0 (two), #1 (two), and #2; and four adapters — 1/4" sq. (two) & miniature holders (two).

Part No.	Model	Description	Price
115-862	KT-130	43-pc. Torque Limiting Screwdriver Kit	\$740.00

24-Piece Torque Limiting Screwdriver Kit Range 6 to 30 lb.in.

Includes fully adjustable torque limiting screwdriver Model TS30 (6-30 lb.in.) described above and following bits: four hex sockets - 7/64", 3/16", 1/4", and 5/16"; seven hex keys - 0.035", 0.050", 1/16", 5/64", 3/32", 1/8", and 5/32"; five slotted bits - 0.100", 0.134", 0.185", 0.214", and 0.250"; two Phillips bits - #0, and #1; and two adapters - 1/4" square and miniature holder.

Part No.	Model	Description	Price
115-861	KT-30	24-pc. Torque Limiting Screwdriver Kit	\$424.00

20-Piece Torque Limiting Screwdriver Kit Range 20 to 100 oz.in.

Includes fully adjustable torque limiting screwdriver Model TS100 (20 to 100 oz.in.) described above, and following bits: three hex sockets - 3/32", 7/64", and 3/16"; five hex keys - 0.028", 0.35", 0.050", 1/16", and 5/64"; four slotted bits - 0.080", 0.100", 0.134", and 0.185"; two Phillips bits - #0, and #1; and two adapters - 1/4" square and miniature holder.

Part No.	Model	Description	Price
115-860	KT-100	20-pc. Torque Limiting Screwdriver Kit	\$401.00



Micro-Adjustable Torque Screwdrivers

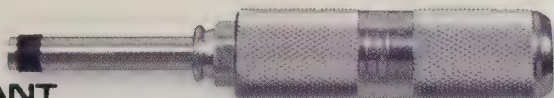
Increase Productivity with Quick and Precise Torque Adjustment

- Ergonomic style handle

Flexible production tools that allow for rapid and uncomplicated changes to their torque values. The torque level is displayed on an easy-to-read window scale, while torque is simply adjusted by pulling out the adjustment knob, turning it to the desired torque level, and pushing it back into place. Tools feature rounded, ergonomic style edges, and a non-slip grip. The permanently lubricated internal mechanism never requires oil. Cam-over torque limiting clutch prevents over torquing, in addition to providing superior repeatability and a torque accuracy of $\pm 6\%$. All models feature spring-loaded 1/4" female hex drives. All drivers come complete with certificate of accuracy traceable to NIST standards.



Part No.	Model	Torque	Price
419-703	MAL500-1	20-100 oz.in.	\$175.00
419-704	MAL500-2	3-15 lb.in.	\$175.00
419-705	MAL500-3	5-40 lb.in.	\$198.00



**STURTEVANT
RICHMONT**

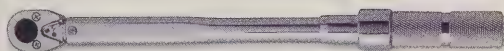
PM-Series Preset Torque Screwdrivers

The internal clutch releases automatically when the pre-set torque is attained. There is no overtorquing!

The PM-series of preset torque screwdrivers have the ideal combination of torque range and accuracy for assembling and maintaining electronic components and precision mechanical products. Whether you are assembling products with many small fasteners like sewing machines or maintaining telecommunications devices or infrastructure, these tools work with precision.

Part No.	Model	Description	Capacity	Price
115-876	PM-5	Preset Screwdriver 5-1/2"	100 in. ozs.	\$122.40
173-641	PM-15	Preset Screwdriver 6-1/4"	15 in. lbs.	\$128.50
140-709	PM-36	Preset Screwdriver 7-3/4"	36 in. lbs.	\$161.00

PROTO



Micrometer Torque Wrenches

- Inch and foot pound
- Ratchet head
- Includes protective blow-molded box

Wrenches are calibrated to $\pm 4\%$ of torque reading clockwise and $\pm 6\%$ counterclockwise at 20% to 100% of full scale.

Part No.	Range	Increments	Drive	Length	Price
185-6062	40-200 in. lb.	1 in. lb.	1/4"	11-1/4"	\$244.70
185-6064	40-200 in. lb.	1 in. lb.	3/8"	11-1/4"	\$136.00

Meets Federal Specs (GGG-W-00686c)

ASG
Products for Assembly

DTT Series Digital Torque Tester

- Store up to 200 readings in memory with time/date stamp
- Includes software and cables to download data to any PC
- 9 user-selectable torque units
- Peak, First Peak, and Track measurement modes
- Auto Reset Mode can be selected by user.
- Comes with certificate of calibration traceable to N.I.S.T.
- Accuracy is greater than $\pm .2\%$ of full scale



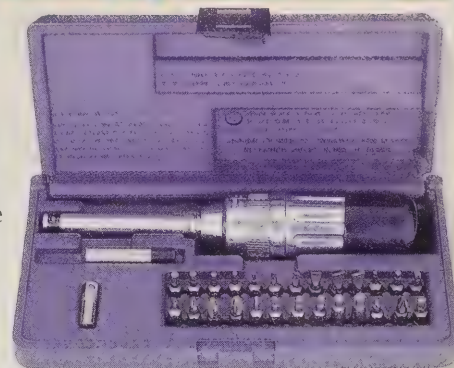
Portable and easy to use, the DTT series torque testers test all screwdrivers except impact clutches. Each unit comes complete with standard adapter, 100 VAC battery charger, RS-232 cable, plastic case and software package.

Part No.	Model	Range	Price
425-165	DTT-5	.025-5.0 lb.in.	\$1,965.50
425-166	DTT-10	.050-10 lb.in.	\$1,965.50
429-526	DTT-100	.50-100 lb.in.	\$1,995.50
425-167	DTT-200	1.0-200 lb.in.	\$2,245.50

**STURTEVANT
RICHMONT**

29 Piece Torque Limiting Screwdriver Kit

- Includes fully adjustable torque limiting screwdriver with magnified calibration scale, case and power bits
- Torque range: 2 to 36 lb.-in. & 0.2 to 4NM



Screwdriver provides precise torque accuracy in both right-and left-hand directions. When preset torque is reached, clutch releases automatically to avoid over-torquing. Recessed thumbscrew at back end of handle permits quick and easy change of torque and can be sealed for production use. Magnified calibration scale is graduated in 2 lb.-in. and 0.2NM. 1/4" female hex drive. Meets requirements of MIL-H26497. Kit comes complete with plastic molded case and the following bits: hex 5/64, 3/32, 7/64, 1/8, 9/64, Pozidrive #1, #2, Phillips #0, #1, #2, #3, Slotted 0-1, 3-4, 5-6, 8-10, 12-14, Torx T10, T15, T20, T25, T30, T40, square recess 0, 1, 2, 3, one bit holder and one 1/4" hex to 1/4" square drive adapter.

Part No.	Description	Price
408-496	Torque Limiting Screwdriver Kit	\$266.00
115-858	Torque Limiting Driver Only	\$214.20



Torque Wrenches

- "Click" sensing
- Micrometer adjustable
- Ratcheting head



Micrometer adjustable torque wrenches feature an audible "click" to indicate when the pre-set torque has been reached. Ratcheting head with quick-shift reversing lever allows the tool to be used in both directions. Micrometer adjustment with major and fine calibration adjustments permit easy and precise torque settings. Patented spring loaded locking collar locks scale on desired reading and remains in locked position. Accuracy is $\pm 4\%$ clockwise and $\pm 6\%$ in counter clockwise use. Slim, lightweight design reduces fatigue and facilitates use in confined areas. Dual scale models (TCI150RA, TCI75FRN and TCI150FRD) feature graduations in lbs. and Nm.

Part No.	Model	Price
119-172	TCI150RA	\$200.20
130-305	TCI750R	\$317.00
130-306	TCI75FRN	\$270.00
130-304	TCI150FRD	\$301.90

Torque Wrenches Specifications				
Model	Drive	Torque Range	Increments	Length
TCI150RA	1/4"	30-150 lb.in.	1 lb.in.	9-1/5"
TCI750R	3/8"	150-750 lb.in.	5 lb.in.	14-1/4"
TCI75FRN	3/8"	15-75 lb.ft.	5 lb.ft.	14-1/4"
TCI150FRD	1/2"	30-150 lb.ft.	1 lb.ft.	18-1/2"

Externally Adjustable Torque Screwdrivers



Ideal for precision torque control. Operator cannot exceed torque setting. When set torque is reached, screwdriver goes into freewheeling condition preventing further torquing of fastener. Repeatable accuracy $\pm 5\%$. Extremely fine torque adjustments - external micrometer-type graduations are easy to read. 1/4" female hex bit holder, precision made, prevents wobble. Lightweight aluminum handles. Four models to choose from.

Part No.	Torque Range lb. in.	Increments lb. in.	Price
115-837	1 to 6	0.03	\$171.00
115-765	2 to 12	0.05	\$179.00
115-781	6 to 26	0.1	\$199.00
115-831	10 to 40	0.25	\$217.00



12-Piece Needle File Kit

Swiss needle files in vinyl see-through pouch. Includes flat, oval, round, half-round, warding, and equaling styles. Finest steel for use in precision work.

Part No.	Description	Price
108-752	File Kit, 12 pc.	\$50.95



8-Piece File Kit

Compact, versatile file kit for tool box or workbench. Contains adjustable file handle and five 6" files: round medium cut, three-square smooth, mill bastard, hand smooth, half round smooth cut and file cleaner. Vinyl roll pouch.

Part No.	Description	Price
23-550	File Kit, 8 pc.	\$50.00
39-890	File Handle	\$6.90



Nicholson File Sets

Nine piece maintenance set includes: 10" flat bastard, 10" flat smooth, 10" mill bastard, 10" half-round bastard, 10" round bastard, 8" flat smooth, 8" half-round bastard, 8" four-in-hand and 6" slim taper.

5 piece general purpose set includes: 10" half-round bastard, 10" mill bastard, 8" mill bastard, 8" mill smooth and 6" slim taper. Each set comes in a rugged, labelled vinyl pouch. Files also available individually.



Part No.	Description	Length	Price
3-130	9-pc. Maintenance File Set	All	\$95.95
401-490	5-pc. General Purpose File Set	-	\$38.50
162-032	File, Flat Bastard	10"	\$11.85
172-068	File, Flat Bastard	10"	\$7.95
3-134	File, Half-round Bastard	10"	\$16.00
3-135	File, Round Bastard	10"	\$8.95
124-399	File, Flat Smooth	8"	\$8.60
181-980	File, 4-in-1 Hand	8"	\$11.75
3-224	File, Slim Taper	6"	\$4.95
39-890	File Handle	-	\$6.90

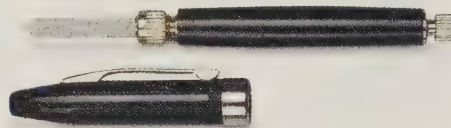


Pocket Contact Burnishers

125-206 comes with six flat blades, 1-1/2" long x 11/64" wide and .007" thick.

191-554 comes with six flat blades .0035" thick and six round blades with ball end, .020" diameter. Both tools are 4-1/4" long with blade storage in hollow plastic body. Chuck holds blade in use.

Part No.	Description	Price
125-206	Pocket Contact Burnisher w/Flat Blades	\$19.55
191-554	Pocket Contact Burnisher w/Flat & Round Blades	\$22.65
125-189	Flat Blades, .007", 25/pkg.	\$17.10
125-188	Flat Blades, .0035", 25/pkg.	\$16.60
759-004	Round Blades, .020", 50/pkg.	\$28.50

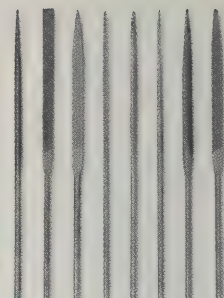


8-Piece Needle File Set

Swiss quality single cut files

Swiss needle files include #2 medium cut in the following styles: warding, half round, round, square, equaling, tri-square, knife and oval in vinyl fold-up pouch.

Part No.	Description	Length	Price
1-031	File Set, 8 pc.	5-1/2"	\$23.50

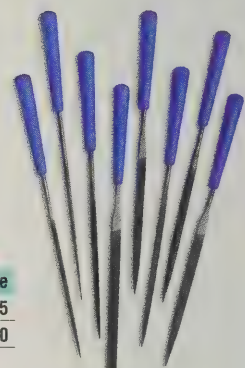


8-Piece Needle File Kits

Top quality Grobet-Swiss needle files
Number 2 cut (medium)

Top of the line Swiss needle files in a vinyl storage pouch. Includes round, square, 3 square, equaling, crossing, warding, half round and knife.

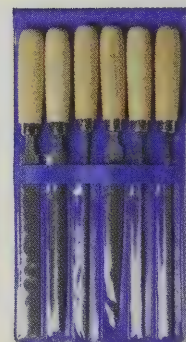
Part No.	Description	Length	Price
14-317	File Kit, 8 pc.	4"	\$51.95
14-319	File Kit, 8 pc.	6-1/4"	\$53.10



6-Piece Wood Handle File Set

Fine quality set includes flat, half-round, round, square, triangular and taper styled files to meet almost every need. Easy grip wood handles with 4-1/8" blades. Vinyl pouch.

Part No.	Description	Length	Price
14-096	File Set, 6 pc.	6-1/2"	\$19.95



Nicholson Comfort-grip Industrial File Set

Innovative grip design provides comfortable use and optimum control. Co-molded grip compound with hard inner structure for strength and softer outer layer for comfort. Flared handle neck prevents slipping. Pegboard hanging hole. Supplied in heavy-duty storage pouch.

Includes 6" extra-slim taper, slim taper; 8" half-round, flat bastard; 10" round bastard, half-round bastard, mill bastard, flat bastard; 12" mill bastard.

Part No.	Description	Price
3-203	Comfort-grip Industrial File Set, 9pc	\$99.95





Pure Red Sable Round Brushes

Traditional round brush softer than camel hair, pony hair and bristle. For detail applications on a larger surface area.



Part No.	Model	Size	Diameter	Trim	Overall Length	Price
417-592	0906-01000	1	.077"	.354"	7"	\$3.05
417-593	0906-02000	2	.079"	.433"	7"	\$3.25
417-594	0906-03000	3	.098"	.511"	7-3/8"	\$3.45
417-595	0906-04000	4	.104"	.532"	7-3/8"	\$3.55
417-596	0906-05000	5	.136"	.590"	7-3/8"	\$3.95
417-597	0906-06000	6	.177"	.708"	7-3/8"	\$4.25

Camel Hair Round Brushes

General purpose artist brush for painting, adhesive applications and touch-up work. Can also be used for dusting and cleaning small areas.



Part No.	Model	Size	Diameter	Trim	Overall Length	Price
417-578	6020-01000	1	.078"	3/8"	7"	\$1.75
417-579	6020-02000	2	.094"	3/8"	7"	\$1.75
417-580	6020-04000	4	.158"	1/2"	7-3/8"	\$1.85
417-581	6020-06000	6	.177"	5/8"	7-3/8"	\$2.25
417-582	6020-08000	8	.197"	7/8"	7-5/8"	\$3.00
417-583	6020-10000	10	.236"	1"	8-1/4"	\$3.50

Oval Sash Dusting Brush

100% pure hog bristle, epoxy set and ferruled. Bristle width is 3/4". Trim extends a full 2" from poly-handle. Overall length 9".

Part No.	Description	Price
113-156	Oval Sash Dusting Brush	\$5.30

Bench Brushes

Made of high-grade natural bristle that will not shed. Used for cleaning printed circuit boards, etc. Four rows of bristle, 4-1/2" x 1/2" wide. Wooden handle 10" long.

Part No.	Description	Price
113-109	Soft	\$6.15
113-110	Medium Soft	\$6.15
113-111	Medium Hard	\$6.15

ESD-Safe Brushes

Non-Conductive Wood Handle Series

Triple-row scratch-style cleaning brushes (1-3/8" x 5/16" bristle face) have 7-3/4" long, static-neutral plywood handles. Available with stainless steel, (.006" wire) soft horsehair, very stiff hog bristle (similar to .018" nylon in relative stiffness) or soft brass .003".

Part No.	Construction	Description	Price
113-129	Staple Set	Stainless Steel	\$2.70
113-128	Staple Set	Horsehair	\$2.60
113-127	Staple Set	Hog Hair	\$3.10
403-243	Hand Laced	Brass	\$4.55



ESD-Safe Applicator-Style Brushes

Steel handled brushes feature mechanical bristle clamping. They don't lose their bristles and there are no adhesives to leach out and contaminate cleaning fluid supply. This makes them an excellent replacement for throw-away acid brushes. Available with 3/4" soft horsehair or stiff hog bristle. Overall length is 5-1/4".

Part No.	Description	Price
403-239	Horsehair	\$3.10
403-240	Hog Hair	\$2.40



ESD-Safe Brushes

Conductive Metal Handle Series

Hand-laced for greater bristle retention, these single and triple row brushes have aluminum handles and are ideal for fine cleaning and polishing in narrow spaces or grooves. Available with horsehair or stainless steel bristles. Stainless steel models have soft, very fine .003" wire bristles to brush without scratching. Ideal for gold contacts. Handle 6-1/2" long.

Part No.	No. of Rows	Description	Size	Price
113-095	One	Stainless Steel	1-1/4" x 1/8"	\$8.45
113-130	Three	Horsehair	1-1/4" x 5/16"	\$14.15
113-131	Three	Stainless Steel	1-1/4" x 5/16"	\$15.85



ESD-Safe Brushes

Large (4 x 9 rows) scratch brushes (2-1/4" x 7/8" bristle face) have a 1" wide, 8-1/2" long static-neutral plywood handle. Available with stiff hog hair which is perfect for board rework and cleanup, or soft horsehair for cleaning/dusting.

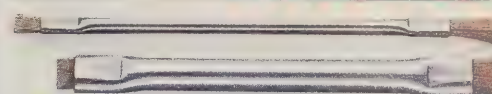
Part No.	Description	Price
127-543	Hog Hair	\$5.95
127-544	Horsehair	\$5.95

113-128

113-127

403-243

403-240



ESD-Safe Double End Brushes

Great for hand assembly cleanup

Bristles are mechanically clamped so that they will not fall out, and there are no adhesives to leach out and contaminate your work. One end of brush is standard; the other end is chiseled to reach into tight corners. Brushes come with a 5" steel handle and are available with soft horsehair or with a very stiff hog bristle.

Part No.	Bristle Type	Bristle Trim (each end)	Hand Diameter	Price
127-351	Horsehair	1/2" - 1/4"	3/16"	\$5.35
127-354	Horsehair	1/4" - 3/16"	3/8"	\$4.15
127-350	Hog Hair	1/2" - 1/4"	3/16"	\$6.15
127-353	Hog Hair	1/4" - 3/16"	3/8"	\$4.85

Acid Brush

Industrial quality for heavy-duty work. Handles are heavy-grade tin plate and horsehair bristles extend a full 3/4" from handle. Used for flux, solvents, and other applications. Length 6". 144 pieces per box.

Part No.	Width	Price/Box
113-149	3/8"	\$13.00
113-150	1/2"	\$13.24
113-151	5/8"	\$16.90

EXCELTA Scratch Brush

Retractable and refillable. Used for fine deburring, polishing, rust removal, or cleaning. Length 4-3/4". 4 models to choose from.

Part No.	Description	Price
113-116	Holder w/Brass Brush	\$9.20
113-117	Brass Refill Only	\$1.65
113-118	Holder w/Steel Brush	\$9.30
113-119	Steel Refill Only	\$1.65
113-120	Holder w/Fiberglass Brush	\$7.30
113-121	Fiberglass Refill Only	\$1.35
113-122	Holder w/Nylon Brush	\$8.35
113-123	Nylon Refill Only	\$1.35

Flux Brush

Used for years by typewriter service engineers and renamed by the electronic industry for its application. Available with three types of bristle: tough nylon, ESD-safe soft horsehair or ESD-safe stiff hog bristle. Brush face has 2 rows and measures 3/8" long x 7/8" wide. Wooden handle is 5" long.

Part No.	Description	Price
113-092	Flux Brush, Nylon Bristle	\$2.70
127-277	Flux Brush, ESD-Safe Horsehair Bristle	\$3.20
127-276	Flux Brush, ESD-Safe Hog Bristle	\$2.90



Slug-Buster Manual Knockout Punch Set

- Punch profile splits slugs automatically
- Easy slug removal
- 1" hex head ratchet wrench included
- Use with both 3/8 and 3/4" draw studs

Set includes 6 punch & die sets for following conduit sizes 1/2, 3/4, 1, 1-1/4, 1-1/2 and 2". Also includes ratchet wrench, plus 3/8 x 1-9/16" and 3/4 x 2-15/16" ball bearing draw studs. Plastic storage case.

Part No.	Description	Price
64-347	Slug-Buster Manual Knockout Punch Set	\$299.95



Round Chassis Punches

Make clean true holes in seconds. Save hours of tedious drilling, sawing, filing, and hand fitting. Easy to operate. Simply insert the punch in small drilled holes — a few quick turns with a hand wrench does the job. Cuts clean up to 16-gauge metal.

Part No.	Model	Size	Price
191-548	730-1/2	1/2"	\$36.00
190-270	730-9/16	9/16"	\$41.75
191-572	730-5/8	5/8"	\$43.00
412-733	71BB	7/8"	\$38.50



Pocket Diamond & Diamond/Carbide Scriber

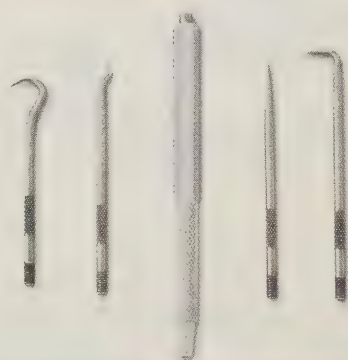
Part No.	Description	Price
262-680	Pocket Diamond Scriber	\$9.15
262-220	Diamond/Carbide Scriber	\$19.35



5-Piece Acu-Min® Scriber/Pick Set

Features four different hardened steel points. Available with either a magnetic or non-magnetic non-rolling, hex aluminum handle with sure grip front end. Assembled length is 7-1/2".

Part No.	Description	Price
41-223	Scriber/Pick Set w/Non-Magnetic Handle, 5 pc.	\$9.15
41-224	Scriber/Pick Set w/Magnetic Handle, 5 pc.	\$10.15

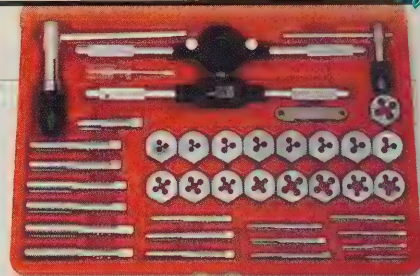


40 Piece Tap & Die Sets

- Inch or metric

Inch Set includes 17 hex dies in sizes 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 1/4-28, 5/16-24, 3/4-24, 7/16-20, 1/2-20 and 1/8-27 pipe, plug-style taps in same sizes, adjustable die guide stock, adjustable tap wrench, two T-handle tap wrenches, screw pitch gauge, screwdriver and unbreakable polyethylene case. **Metric Set** is similar, with 17 hex dies (5/8 or 1") in sizes 3mm-.50 to 12mm-1.75, matching taps and same accessories and case as inch set.

Part No.	Description	Price
146-180	Tap and Die Set, Inch Measure	\$132.00
125-354	Tap and Die Set, Metric Measure	\$146.05

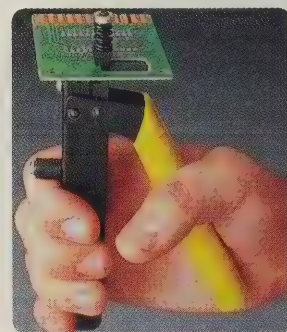


KLEIN TOOLS

Nibbler Cutting Tool

Cuts clean up to 18-gauge steel, 1/16" aluminum, copper, and plastic. Cuts holes and notches to any shape and size, both internally and externally, with no strain or distortion to edges. For external cuts, squeeze handle and guide tool along. For internal cuts, just start with a 7/16" hole, then nibble to the desired shape or size. Return spring opens tool after each cut, minimizing user fatigue.

Part No.	Description	Price
190-274	Nibbler Tool	\$28.36
125-144	Replacement Blade	\$13.67



13-Piece Tap And Drill Set

Six chromed taps and six matching high-speed steel drills, plus T-handle wrench. Tap sizes: 4-40, 6-32, 8-32, 10-42, 10-32, and 1/4-20. All neatly stored in unbreakable, indexed, molded case.

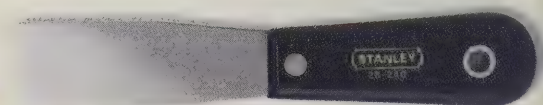
Part No.	Description	Price
125-352	13-pc. Tap & Drill Set	\$24.55



Professional™ Putty Knife

Hardened and tempered steel blade is fully polished, taper ground and permanently attached to shatter-resistant nylon handle. 1-1/4" wide flexible blade.

Part No.	Description	Price
865-159	1-1/4" Putty Knife	\$4.05





Pro Sharpshooter™ Heavy-Duty Staple Gun

Operates as a staple gun, nailer, cable tacker and screen/canvas specialty tool. Manual, easy-squeeze lever. Dual power, hi/lo for hard or soft materials. Drives Stanley SharpShooter staples and brads.

Part No.	Description	Size	Price
145-001	Pro Sharpshooter Heavy-Duty Staple Gun	-	\$23.00
145-004	Heavy-Duty Staples, 1000/pk.	1/4"	\$1.80
145-005	Heavy-Duty Staples, 1000/pk.	5/16"	\$1.80
145-006	Heavy-Duty Staples, 1000/pk.	3/8"	\$1.80
145-007	Heavy-Duty Staples, 1000/pk.	1/2"	\$2.00



Glue Pro Professional Glue Gun

Industrial quality electric glue gun features exclusive auto shut-off for safety, reliability and extended life. Dual-heater provides 40% greater glue output. Temperature switch for both high and low temperature glue applications. On/off light and protected nozzle. Cushion grip for comfortable non-slip trigger action. 115VAC.

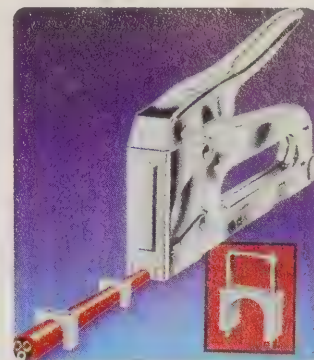
Part No.	Description	Price
145-003	Glue Pro Professional Glue Gun	\$25.50
145-009	Glue Sticks, 4" Standard Clear, 24/pk.	\$2.55
145-011	Glue Sticks, 4", Super Strength, 30/pk.	\$3.55



T-59 Wire Tacker

- Secures wire with insulated staples

Allows safe and secure installation of all types of wiring from 1/4" to 5/16" diameter. All steel construction with chrome finish. One-hand operation.



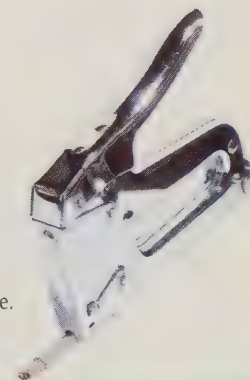
Part No.	Model	Description	Price
84-790	T-59	Wire Tacker	\$69.95
84-795	T-59	1/4" Insulated Staples, 300/bx.	\$10.35
84-796	T-59	5/16" Insulated Staples, 300/bx.	\$7.75



T-18 Wire Tacker

- Perfect for small diameter telephone/LAN cable

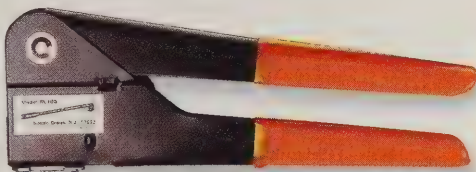
For securing up to 3/16" diameter wire and cable. Loads up to 85 staples. Drives tightly on new thin telephone wire. All steel construction with bright chrome finish. One hand operation.



Part No.	Model	Description	Price
84-536	T-18	Wire Tacker	\$59.40
84-535	T-18	Staples, 3/16" dia., 7/16" depth	\$3.25



RL100™ Rivet Tool



Versatile tool with countless repair uses in industry. Changeable nose piece accepts 1/8" & 5/32" as well as 3/16" rivets. All steel construction with comfortable vinyl grip. Spring loaded handle for easy loading and ejection. Choose from three popular rivet types/sizes below. Jensen can special order the entire line of Arrow rivets including aluminum and steel. Medium grip rivets thickness range up to 1/4", Long grip rivets up to 1/2".

Part No.	Description	Price
419-602	Rivet Tool	\$14.25
419-603	Rivets, aluminum, 1/8" dia., medium grip, 20pk	\$2.30
419-604	Rivets, aluminum, 5/32" dia., medium grip, 20pk	\$2.30
419-605	Rivets, aluminum, 3/16" dia., long grip, 12pk	\$2.30



Staple Gun Tacker

- Secures round wires fast

All steel with chrome finish. Two sizes, for 1/4" and 1/2" diameter wire and cable.



Part No.	Model	Description	Price
84-770	T-25	Staple Gun Tacker, 1/4"	\$57.50
127-918	T-25	Staple Gun Tacker, 1/2"	\$44.00
84-775	T-25	Staples, 1/4" diameter, 7/16" depth	\$10.75
127-919	T-75	Staples, 1/2" diameter, 5/8" depth	\$6.15

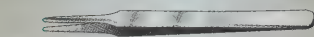


Tweezer Styles

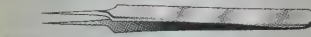
A variety of styles to suit almost every need. Used in watchmaking, microscopy, micro-electronic production, semi-conductor, white room operations, instrument assembly and more.



00 Utility-type tweezer with very strong flat tips and legs.



A For use on semiconductor wafers. Long, thin, smooth-surfaced rounded tips.



5 Needle-like, very thin tips for handling microscopic parts.



7 Very thin curved tips for working on microminature assemblies.



1 Slender general-use tweezer with strong, sharply pointed tips.



3 Finely pointed tips accurately position miniature parts.

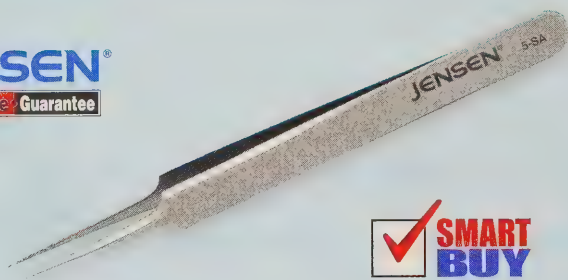


6 Sharp, fine bent tips for inserting and retrieving miniature parts.



Diamond Diamond Strong serrated tips for parts handling.

JENSEN®
Lifetime Guarantee



Precision Tweezers

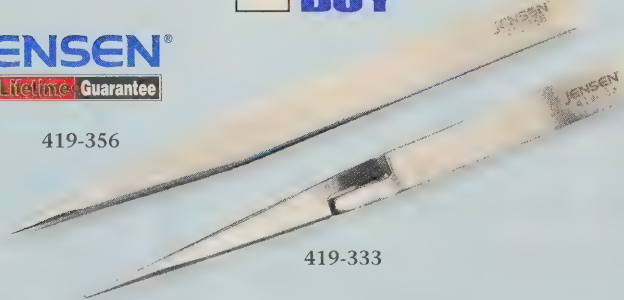
Jensen quality industrial-grade tweezers feature anti-magnetic, anti-acid stainless steel construction. Low-glare satin finish. Precision tips are perfectly aligned. Standard tension.

Part No.	Style	Length	Price
606-100	00	4-3/4"	\$8.10
606-002	2A	4-3/4"	\$8.40
606-003	3	4-3/4"	\$8.10
606-005	5	4-1/4"	\$8.10
606-006	6	4-1/2"	\$8.10
606-007	7	4-1/2"	\$8.10



JENSEN®
Lifetime Guarantee

419-356



419-333

Specialty Tweezers

Part No.	Description	Price
419-356	Boley Style Tweezer, 4-7/8"	\$8.10
419-333	Reverse-Action Tweezer, 4"	\$5.05

DUMONT® Hi-Tech Swiss Tweezers

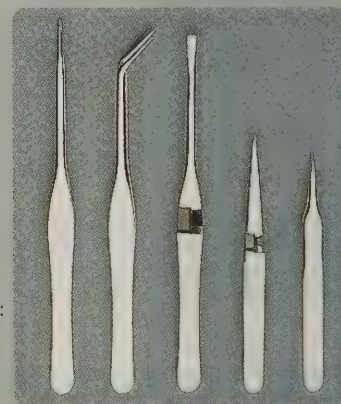
Legendary Dumont quality in a fine mid-priced tweezer. Excellent finish and balance. Available in either stainless steel or non-magnetic stainless steel.

Stainless Steel				Anti-Magnetic Stainless Steel	
Part No.	Price	Style	Length	Part No.	Price
803-100	\$14.60	00	4-1/2"	170-900	\$14.90
803-001	\$14.30	1	4-3/4"	803-011	\$13.90
803-002	\$14.50	2A	4-3/4"	803-012	\$15.00
803-003	\$18.20	3	4-3/4"	803-013	\$18.50
803-005	\$18.50	5	4-3/8"	803-014	\$19.60
803-006	\$23.80	6	4-1/2"	803-016	\$24.10
803-007	\$21.40	7	4-1/2"	803-017	\$20.70
803-072	\$17.70	Diamond	6-1/2"	-	-

5-Piece Soldering Tweezer Kit

Carbon steel, nickel plate. Kit contains five soldering tweezers. Included: 4-3/4" pointed tip self-closing, 6-1/2" blunt tip self-closing, 6-3/4" curved point, 4-3/8" sharp point and 7" smooth point. Comes in vinyl pouch.

Part No.	Description	Price
401-505	5-pc. Tweezer Kit	\$27.75





JENSEN
Lifetime Guarantee



Stainless Steel Precision Tweezer Kit

Fine quality tweezers manufactured from iron-chromium alloy stainless steel. Precision shaped and hand finished. Set includes styles 2A, 3, 00, Diamond, 6, and 7 in padded zipper case.

Part No.	Description	Price
1-580	Precision Tweezer Kit, 6 pc.	\$101.00
54-168	Zipper Case Only	\$18.00



Grobet All-Purpose Tweezer Kit

Five basic tweezers: 4-1/2" pointed, 4-3/4" stamp, 6" forceps, 6" utility, and 6-1/2" self closing. Long life nickel-plated steel resists corrosion. Storage pouch.

Part No.	Description	Price
31-936	All-Purpose Tweezer Kit, 5 pc.	\$20.80



Reverse-Action Tweezer

Stainless Steel. Flat medium points. Length 4-3/4".

Part No.	Description	Price
116-528	Reverse-Action Tweezer	\$3.60

New



EXCELTA

Smart Tweezer

Smart Tweezers are Ideal for Identifying, Testing and Troubleshooting Surface Mounted Devices

- R-L-C meter in a tweezer
- Automatic recognition of measurement mode (R, L and C)
- Primary and secondary display modes

Smart Tweezers have a unique mechanical and electronic design that incorporates a built-in direct precision SMD probe designed for component evaluation on the production line, PCB debugging, component impedance testing and sorting of SMD components.

The integrated SMD probe and measurement head, combined with automatic recognition of measurement modes (R, C and L) and the range of measurement, allows the operator to focus on the component under test. As a result testing, sorting and evaluation of components becomes more efficient and cost effective.

Part No.	Model	Description	Price
428-633	ST-1	Smart Tweezer	\$345.40



Style 1 Tweezers

Extra sharp fine points. 4-1/2" long. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-298	Carbon Steel	1	Swiss	\$18.40
116-579	Carbon Steel	1-PI	Italian	\$9.50
116-330	Stainless Steel	1S	Swiss	\$19.80
116-331	Stainless Steel, Anti-Acid, Anti-Magnetic	1SA	Swiss	\$19.40
116-582	Stainless Steel, Anti-Acid, Anti-Magnetic	1-SA-PI	Italian	\$11.05
401-539	Stainless Steel, Anti-Acid, Anti-Magnetic	1-SA-SE	Economy	\$5.65

Style 2 Tweezers

Sharp fine points. 4" long. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-332	Carbon Steel	2	Swiss	\$18.55
116-583	Carbon Steel	2-PI	Italian	\$11.40
116-355	Stainless Steel	2S	Swiss	\$22.00
116-356	Stainless Steel, Anti-Acid, Anti-Magnetic	2SA	Swiss	\$22.00
116-589	Stainless Steel, Anti-Acid, Anti-Magnetic	2-SA-PI	Italian	\$11.70
401-540	Stainless Steel, Anti-Acid, Anti-Magnetic	2-SA-SE	Economy	\$5.65

Style 2A Tweezers

Blunt flat tips. 4-1/2" long. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-350	Carbon Steel	2A	Swiss	\$19.30
116-587	Carbon Steel	2A-PI	Italian	\$9.50
116-353	Stainless Steel	2AS	Swiss	\$18.15
401-541	Stainless Steel	2A-S-SE	Economy	\$5.90
116-354	Stainless Steel, Anti-Acid, Anti-Magnetic	2A-SA	Swiss	\$17.80
116-588	Stainless Steel, Anti-Acid, Anti-Magnetic	2A-SA-PI	Italian	\$11.05
406-316	Stainless Steel, Anti-Acid, Anti-Magnetic	2A-SA-SE	Economy	\$5.65

Style 2AB Tweezers

Blunt flat tips. 4-1/2" long. Available in different quality grades.

Part No.	Material	Model	Quality Grade	Price
406-414	Stainless Steel, Anti-Acid, Anti-Magnetic	2AB-SA-PI	Italian	\$14.95
116-352	Stainless Steel, Anti-Acid, Anti-Magnetic	2AB-SA-SE	Economy	\$6.65

Style 3 Tweezers

Extra sharp fine points. 4-3/4" long. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-357	Carbon Steel	3	Swiss	\$22.40
116-590	Carbon Steel	3-PI	Italian	\$9.50
116-376	Stainless Steel	3S	Swiss	\$22.85
116-596	Stainless Steel	3-S-PI	Italian	\$10.05
116-377	Stainless Steel, Anti-Acid, Anti-Magnetic	3-SA	Swiss	\$23.55
116-597	Stainless Steel, Anti-Acid, Anti-Magnetic	3-SA-PI	Italian	\$11.40
116-379	Stainless Steel, Anti-Acid, Anti-Magnetic	3-SA-SE	Economy	\$7.50



Style 3C Tweezers

Extra sharp fine points. 4-1/4" long. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-370	Carbon Steel	3C	Swiss	\$22.85
116-593	Carbon Steel	3C-PI	Italian	\$9.35
116-373	Stainless Steel	3C-S	Swiss	\$22.85
116-594	Stainless Steel	3C-S-PI	Italian	\$11.40
116-374	Stainless Steel, Anti-Acid, Anti-Magnetic	3C-SA	Swiss	\$21.90
116-595	Stainless Steel, Anti-Acid, Anti-Magnetic	3C-SA-PI	Italian	\$11.40
116-518	Stainless Steel, Anti-Acid, Anti-Magnetic	3C-SA-SE	Economy	\$5.65

Style 5 Tweezers

Sharpest points available. 4-1/2" long. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-388	Carbon Steel	5	Swiss	\$25.25
116-601	Carbon Steel	5-PI	Italian	\$10.00
116-403	Stainless Steel	5S	Swiss	\$26.30
116-605	Stainless Steel	5-S-PI	Italian	\$14.25
116-404	Stainless Steel, Anti-Acid, Anti-Magnetic	5-SA	Swiss	\$29.85
116-606	Stainless Steel, Anti-Acid, Anti-Magnetic	5-SA-PI	Italian	\$12.25
116-519	Stainless Steel, Anti-Acid, Anti-Magnetic	5-SA-SE	Economy	\$5.65

Style 5A Tweezers

Sharpest points available. 4-1/2" long. Available in different quality grades.

Part No.	Material	Model	Quality Grade	Price
116-401	Stainless Steel, Anti-Acid, Anti-Magnetic	5A-SA	Swiss	\$25.75
116-604	Stainless Steel, Anti-Acid, Anti-Magnetic	5A-SA-PI	Italian	\$12.65
116-402	Stainless Steel, Anti-Acid, Anti-Magnetic	5A-SA-SE	Economy	\$5.70

Style 6 Tweezers

Strong sharp points. 4-1/2" long. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-607	Carbon Steel	6-PI	Italian	\$11.40
116-409	Stainless Steel	6S	Swiss	\$30.10
116-410	Stainless Steel, Anti-Acid, Anti-Magnetic	6SA	Swiss	\$30.60
116-608	Stainless Steel, Anti-Acid, Anti-Magnetic	6-SA-PI	Italian	\$12.35

Style 7 Tweezers

Extra sharp fine points. 4-1/2" long. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-411	Carbon Steel	7	Swiss	\$25.20
116-609	Carbon Steel	7-PI	Italian	\$12.35
116-421	Stainless Steel	7S	Swiss	\$24.90
116-611	Stainless Steel	7-S-PI	Italian	\$10.50
116-422	Stainless Steel, Anti-Acid, Anti-Magnetic	7-SA	Swiss	\$23.95
116-612	Stainless Steel, Anti-Acid, Anti-Magnetic	7-SA-PI	Italian	\$12.35
116-520	Stainless Steel, Anti-Acid, Anti-Magnetic	7-SA-SE	Economy	\$5.65



EXCELTA

TWEEZERS



Style 7B Tweezers

Extra sharp fine points. 4-1/2" long serrated points. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-417	Carbon Steel	7B	Swiss	\$25.75
116-419	Stainless Steel, Anti-Acid, Anti-Magnetic	7B-SA	Swiss	\$25.80
404-331	Stainless Steel, Anti-Acid, Anti-Magnetic	7B-SA-PI	Italian	\$11.70

Style 15A Cutting Tweezers

Oblique cutter. 4-1/2" long. Available in different quality grades.

Part No.	Material	Model	Quality Grade	Price
130-041	Carbon Steel	15A-GW	Swiss	\$42.60
116-308	Carbon Steel	15A-C	Swiss	\$46.95
116-580	Carbon Steel	15A-GW-PI	Italian	\$28.80

Style 24 Tweezers

Strong sharp points. 5-3/4" long. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-585	Carbon Steel, Nickel Plated	24-6-PI	Italian	\$15.15
116-343	Stainless Steel, Anti-Acid, Anti-Magnetic	24-6-SA	Swiss	\$47.00
116-586	Stainless Steel, Anti-Acid, Anti-Magnetic	24-SA-PI	Italian	\$16.95

Style 30 Tweezers

Strong sharp points. 6" long reverse action, fiber grip. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-364	Stainless Steel, Anti-Acid, Anti-Magnetic	30-SA	Swiss	\$32.40

Style 231 Tweezer

Strong sharp points. 4-3/4" long.

Part No.	Material	Model	Quality Grade	Price
116-336	Stainless Steel, Anti-Acid, Anti-Magnetic	231-SA-SE	Economy	\$6.65

Style AA Tweezers

Sharp fine points. 5" long. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-493	Carbon Steel	AA	Swiss	\$15.60
116-495	Stainless Steel, Anti-Acid, Anti-Magnetic	AA-SA	Swiss	\$20.65
116-617	Stainless Steel, Anti-Acid, Anti-Magnetic	AA-SA-PI	Italian	\$10.70
116-521	Stainless Steel, Anti-Acid, Anti-Magnetic	AA-SA-SE	Economy	\$5.65



Style AC Tweezers

Strong sharp points. 4-1/2" long. Available in different materials and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-496	Carbon Steel	AC	Swiss	\$18.05
116-618	Carbon Steel	AC-PI	Italian	\$11.40
116-619	Stainless Steel, Anti-Acid, Anti-Magnetic	AC-SA-PI	Italian	\$11.40

Style MM Tweezers

Sharp fine points. 5" long. Available in different material and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-501	Carbon Steel	MM	Italian	\$15.85
116-502	Stainless Steel, Anti-Acid, Anti-Magnetic	MM-SA-SE	Economy	\$5.65

Style SS Tweezers

Sharp fine points. 5-1/2" long. Available in different quality grades.

Part No.	Material	Model	Quality Grade	Price
116-522	Stainless Steel, Anti-Acid, Anti-Magnetic	SS-SA	Swiss	\$19.30
116-624	Stainless Steel, Anti-Acid, Anti-Magnetic	SS-SA-PI	Italian	\$11.40

Style 00 Tweezers

Strong sharp points. 4-3/4" long. Available in different material and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-290	Carbon Steel	00	Swiss	\$22.70
116-573	Carbon Steel	00-PI	Italian	\$13.35
116-295	Carbon Steel	00-SE	Economy	\$5.90
116-294	Stainless Steel, Anti-Acid, Anti-Magnetic	00-SA	Swiss	\$18.50
116-576	Stainless Steel, Anti-Acid, Anti-Magnetic	00-SA-PI	Italian	\$11.05
116-516	Stainless Steel, Anti-Acid, Anti-Magnetic	00-SA-SE	Economy	\$5.20

Style 0C Tweezers

Strong sharp points. 3-1/2". Available in different material and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-296	Carbon Steel	0C	Swiss	\$19.00
116-577	Carbon Steel	0C-PI	Italian	\$13.05
116-297	Stainless Steel, Anti-Acid, Anti-Magnetic	0C-SA	Swiss	\$19.85
116-578	Stainless Steel, Anti-Acid, Anti-Magnetic	0C-SA-PI	Italian	\$11.25

Style 00D Tweezers

Strong sharp points. 4-3/4" long serrated points. Available in different material and quality grades.

Part No.	Material	Model	Quality Grade	Price
116-292	Carbon Steel	00D	Swiss	\$23.60
116-293	Stainless Steel, Anti-Acid, Anti-Magnetic	00D-SA	Swiss	\$18.70
116-575	Stainless Steel, Anti-Acid, Anti-Magnetic	00D-SA-PI	Italian	\$13.25



Style 103 SMD Tweezers

Part No.	Model	Quality Grade	Material	Price
170-778	103SA	Swiss ***	Stainless Steel, Anti-Acid, Anti-Magnetic	\$45.70

Style 104 SMD Tweezers

For handling SOTs and chip capacitors. Tips are horizontally constructed for good visibility and extra control. 4-1/4" long.

Part No.	Model	Quality Grade	Material	Price
161-565	104SA	Swiss ***	Stainless Steel, Anti-Acid, Anti-Magnetic	\$42.60

Style 105 SMD Tweezers

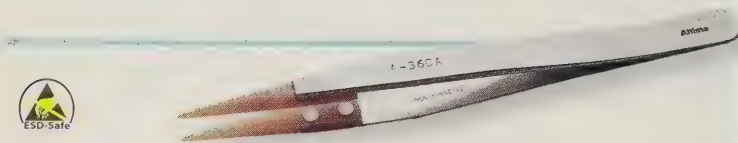
For placing all SOT packages vertically. 4-1/4" long.

Part No.	Model	Quality Grade	Material	Price
116-301	105SA	Swiss ****	Stainless Steel, Anti-Acid, Anti-Magnetic	\$45.70

Style 111 SMD Tweezers

For handling 5mm chip capacitors with a flat base. Horizontally grooved inside tips are 2mm long at base. 4-1/4" long.

Part No.	Model	Quality Grade	Material	Price
429-782	111SA	Swiss ***	Stainless Steel, Anti-Acid, Anti-Magnetic	\$48.68



Excelta™ Ensital SD Static Dissipative ReplaceableTip Tweezers

Acceptable for Clean Room Use

- Surface resistivity of 10^{10} ohm/sq.
- Melting Point 464°F

Designed specifically for clean room use, these tweezers are nonparticulating and contain no carbon. They are permanently anti-static, and are unaffected by moisture.

Style A360B-RT

4.5" long. Fine points 1.0mm.

Part No.	Model	Quality Grade	Price
425-172	A360B-RT	Swiss *****	\$52.50

Excelta Delrin 500 Black Conductive Soft Tip Tweezers



- Surface Resistivity 1.5 to 4.5×10^2 ohm/sq.
- Heat Resistance 464°F
- High rigidity for firm grasp

Ideal for working with small, delicate components. Will not mar or scratch parts. Tips made of carbon fiber and glass fiber.



Style D449A-RT

4" long. Extra fine points 0.4mm.

Part No.	Model	Quality Grade	Price
426-771	D449A-RT	Swiss ****	\$50.65



Style D449B

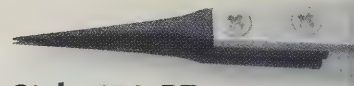
5" long. Fine points 1.0mm.

Part No.	Model	Quality Grade	Price
427-871	D449B-RT	Swiss ****	\$46.80

CarboFib™ Static Dissipative Soft Tip Tweezers

- Surface Resistivity of 2.8×10^9 ohm/sq.

Will not mar or scratch. Withstand temperature up to 248°F. Tips made of composite material containing carbon fibers.



Style 159-RT

Extra fine points 0.3mm, 4" long.

Part No.	Model	Quality Grade	Price
427-876	159-RT	Swiss ***	\$33.90



Style 749A-RT

Curved points with very fine tips, 0.4mm, 4" long.

Part No.	Model	Quality Grade	Price
425-175	749A-RT	Swiss ***	\$44.65



Glass-Filled "Delrin" Tweezers

Will not mar or scratch parts. Resists virtually any solvent non-magnetic and non-absorbent. Part No. 116-407 and 116-415 are anti-static and feature a resistivity of $6 \times 10^{11} \Omega$.

Style 609

4-9/16" long. Flat tips 0.008" X 1/8".

Part No.	Material	Price
116-406	Delrin	\$3.80
116-407	Delrin Anti-Static	\$6.10

Style 7

4-9/16" long. Sharp points.

Part No.	Material	Price
116-420	Delrin	\$3.80
116-415	Delrin Anti-Static	\$5.05

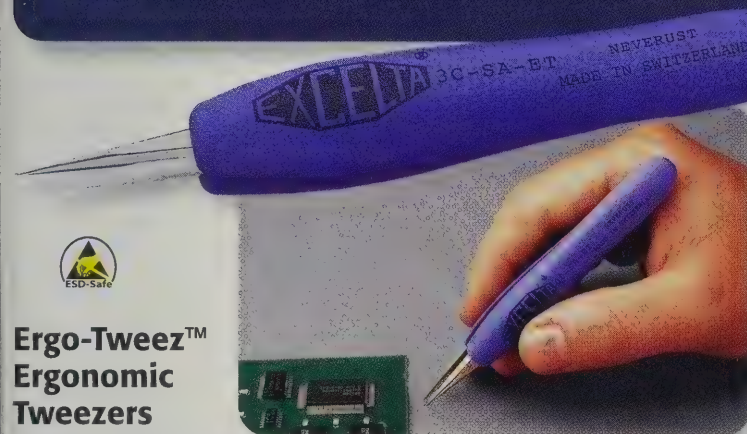
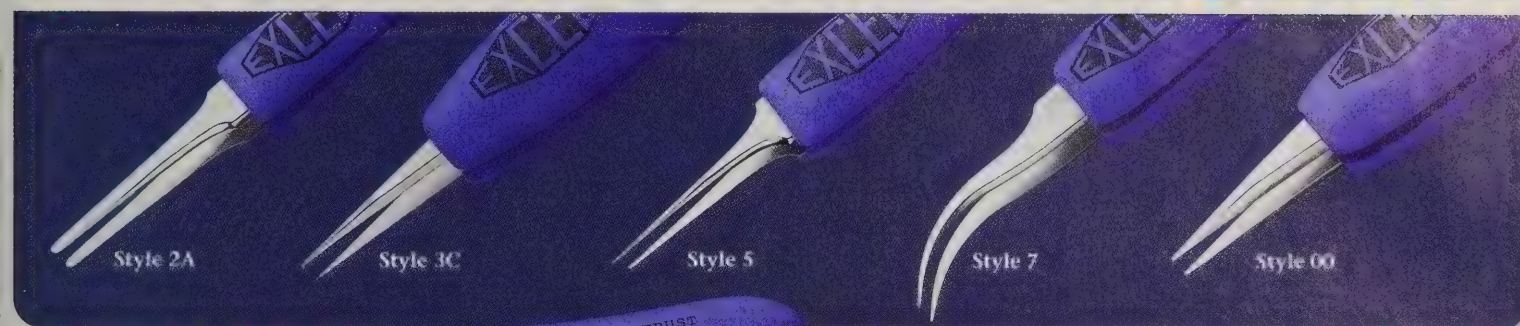
Style 808

4-3/8" long. Fine angled points.

Part No.	Material	Price
116-423	Delrin	\$4.75



The great selection of precision tools continues online: contacteast.com and jensentools.com



Ergo-Tweez™ Ergonomic Tweezers

Made in Switzerland

Soft foam cushion grip is specifically designed to combat operator fatigue and Carpal Tunnel Syndrome while simultaneously acting as a heat shield. Tweezers are ESD-Safe, and are made in Switzerland.

Style 2A

Flat, rounded tips make this tweezer excellent for handling various micro components. 4-3/4" long.

Part No.	Model	Description	Quality Grade	Price
406-790	2A-SA-ET	Stainless Steel/ Anti-Magnetic	Swiss ***	\$26.30

Style 3C

Extra sharp fine points - ideal for micro assembly. 4-1/2" long.

Part No.	Model	Description	Quality Grade	Price
400-955	3CSA-ET	Stainless Steel/ Anti-Magnetic	Swiss ***	\$24.95

Style 5

Thin, tapered points - excellent for die attaching and wire bonding in micro assembly. 4-1/2" long.

Part No.	Model	Description	Quality Grade	Price
406-791	5-SA-ET	Stainless Steel/ Anti-Magnetic	Swiss ***	\$27.70

Style 7

Curved points, precision tip allows for maximum visibility under magnification. 4-3/4" long.

Part No.	Model	Description	Quality Grade	Price
191-946	7-SA-ET	Stainless Steel/Anti-Magnetic	Swiss ***	\$28.25

Style 00

Straight sharp points designed for general assembly. 4-3/4" long.

Part No.	Model	Description	Quality Grade	Price
191-934	00-SA-ET	Stainless Steel/ Anti-Magnetic	Swiss ***	\$21.05

COBALTIMA® SOFTOUCH™ Tweezers

Made in Switzerland

- Rockwell C hardness of 63/64
- Resistance to high temperatures and corrosion
- Finger Grooves
- 1mm Body Thickness

Extensive testing and research has resulted in these tweezers, whose strength is unparalleled. The newly developed 40% Cobalt alloy is the key to the tweezers' tip hardness and longevity. The Cobalt alloy ensures that the tips are virtually insensitive to fatigue and never lose their elasticity. In addition, the tweezers resist temperatures up to 550°C and their resistance to corrosion is superior to that of stainless steel.

Style 3

Straight tips. Extra sharp fine points. For precision handling. 4-3/4" long.

Part No.	Model	Quality Grade	Price
417-267	3-CO	Swiss *****	\$44.60

Style 3C

Straight tips. Extra sharp fine points. For precision handling. 4-1/4" long.

Part No.	Model	Quality Grade	Price
417-268	3C-CO	Swiss *****	\$44.55

Style 4

Short tapered tips. Fine points. Good torque capability. 4-1/4" long.

Part No.	Model	Quality Grade	Price
417-269	4-CO	Swiss *****	\$47.70

Style 5

Extra long tapered tips. Sharpest points available. 4-1/4" long.

Part No.	Model	Quality Grade	Price
417-270	5-CO	Swiss *****	\$50.85

Style 7

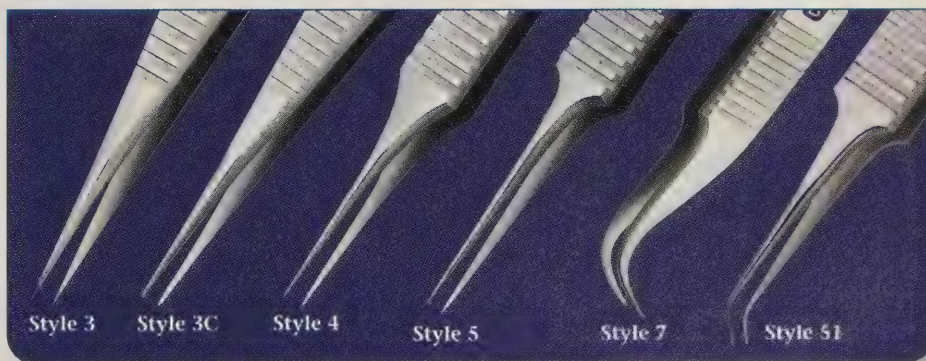
Curved points. Extra sharp fine points. 4-1/2" long.

Part No.	Model	Quality Grade	Price
417-271	7-CO	Swiss *****	\$55.50

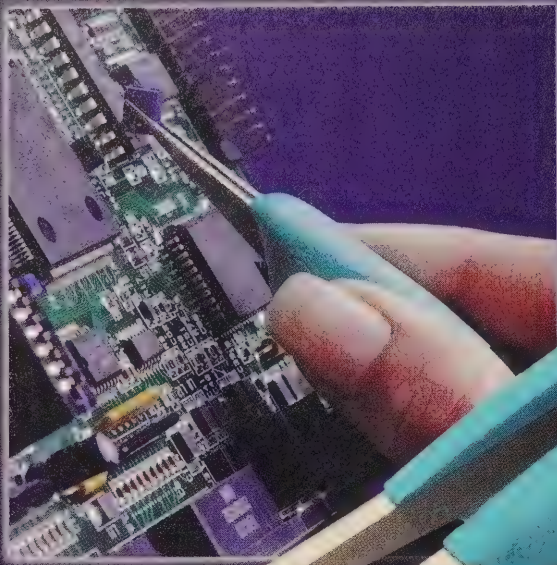
Style 51

Oblique angle for handling fine wires and components. Sharpest points available. 4-1/2" long.

Part No.	Model	Quality Grade	Price
417-272	51-CO	Swiss *****	\$48.00



Precise Work Demands Precision Tools.



Experience the ultimate in comfort and control with Erem® ergonomic cushion grip tweezers. ESD safe and ultra anti-magnetic, with soft heat-resistant grips, these Swiss-made stainless steel tweezers provide the accuracy you need for any micro electronic handling application. Ask your Contact East customer support representative to show you these and the many other high quality products in Erem's full line of precision pliers, cutters, and tweezers. (see opposite page)

COOPER Hand Tools
©2003 Cooper Industries, Inc.

Erem®

Style 1

Style 2

Style 2A

Style 3

Style 3C

Style 5

Style 2A Tweezers

Blunt flat tips. 4-1/2" long. Available in different quality grades.

Part No.	Model	Quality Grade	Price
116-351	2ASA	Swiss	\$17.65
190-740	2ASASL	Italian	\$6.80
182-065	EROP2ASA	Economy	\$3.05

Style 3 Tweezers

Extra sharp fine points. 4-1/2" long. Available in different quality grades.

Part No.	Model	Quality Grade	Price
116-359	3SA	Swiss	\$19.20
182-008	3SASL	Italian	\$9.00
182-067	EROP3SA	Economy	\$3.20

Style 3C Tweezers

Extra sharp fine points. 4-1/4" long. Available in different quality grades.

Part No.	Model	Quality Grade	Price
116-372	3CSA	Swiss	\$15.25
416-376	3CSASL	Italian	\$9.20
182-066	EROP3CSA	Economy	\$3.15

Style 5 Tweezers

Sharpest points available. 4-1/2" long. Available in different quality grades.

Part No.	Model	Quality Grade	Price
116-390	5SA	Swiss	\$20.45
416-378	5SASL	Italian	\$9.15
182-069	EROP5SA	Economy	\$3.05

Style 1 Tweezers

Sharp fine points. 4-3/4" long. Available in different quality grades.

Part No.	Model	Quality Grade	Price
173-508	1SA	Swiss	\$15.15
423-329	1SASL	Italian	\$9.00

Stainless Steel, Anti-Acid and Anti-Magnetic

Style 2 Tweezers

Sharp fine points. 4-1/2" long. Available in different quality grades.

Part No.	Model	Quality Grade	Price
408-724	2SA	Swiss	\$19.30
416-375	2SASL	Italian	\$9.10





Style 5A Tweezers

Very fine points. 4-1/2" long. Stainless steel, anti-acid and anti-magnetic. Available in different quality grades.

Part No.	Model	Quality Grade	Price
174-854	5ASA	Swiss	\$17.85
423-330	5ASASL	Italian	\$8.75
182-068	EROP5ASA	Economy	\$3.05

Style 7 Tweezers

Extra sharp fine points. 4-1/2" long. Stainless steel, anti-acid and anti-magnetic. Available in different quality grades.

Part No.	Model	Quality Grade	Price
408-723	7SA	Swiss	\$22.90
170-819	7SASL	Italian	\$8.75
182-070	EROP7SA	Economy	\$2.85

15AGW Cutting Tweezers

Oblique cutter. 4-1/2" long. Made of carbon steel.

Part No.	Model	Quality Grade	Price
404-476	15AGW	Swiss	\$27.70

Style 24 Tweezers

Serrated tips. 6" long. Stainless steel, anti-acid and anti-magnetic. Outside handles and alignment pin.

Part No.	Model	Quality Grade	Price
160-459	24SA	Italian	\$14.05

Style AA Tweezers

Very Popular for electronic Assembly. 5" long. Nickel plated, anti-acid and anti-magnetic.

Part No.	Model	Quality Grade	Price
116-494	AASA	Swiss	\$8.60
182-071	EROPAASA	Economy	\$3.20

Style AC Tweezers

Serrated Grip Area. 4-1/4" long. Stainless steel, anti-acid and anti-magnetic.

Part No.	Model	Quality Grade	Price
173-759	ACSA	Italian	\$7.85

Style 00 Tweezers

Strong sharp points. 4-3/4" long. Stainless steel, anti-acid and anti-magnetic. Available in different quality grades.

Part No.	Model	Quality Grade	Price
116-505	00SA	Swiss	\$15.65
175-163	EROP00SA	Economy	\$3.15

Style 00D Tweezers

Strong sharp points. 4-3/4" long. Serrated points. Stainless steel, anti-acid and anti-magnetic. Available in different quality grades.

Part No.	Model	Quality Grade	Price
408-732	00DSA	Swiss	\$18.65
182-064	EROP00DSA	Economy	\$3.05

Style SS Tweezers

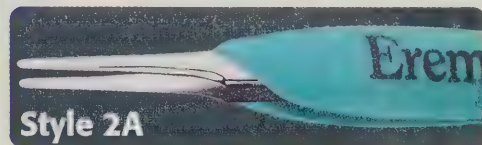
Very Narrow Handles. 5-1/2" long. Stainless steel, anti-acid and anti-magnetic.

Part No.	Model	Quality Grade	Price
170-820	SSSA	Swiss	\$15.65

Ergonomic Cushion Grip Tweezers

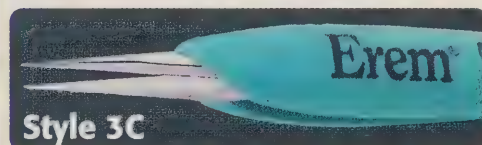


The foam cushion grips provide comfort and control, and act as a heat shield. Tweezers are made in Switzerland, and are ESD-Safe.



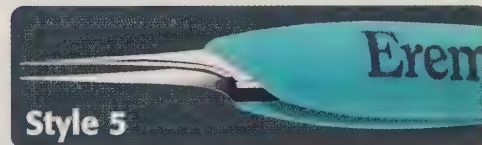
Blunt flat tips. For handling various micro components. 4-3/4" long.

Part No.	Model	Material	Price
416-381	E2ASA	Stainless Steel Anti-Acid/Anti-Magnetic	\$20.10



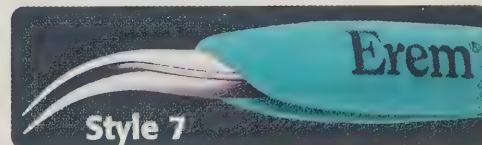
Extra sharp fine points. For micro assembly. 4-1/2" long.

Part No.	Model	Material	Price
184-033	E3CSA	Stainless Steel Anti-Acid/Anti-Magnetic	\$23.20



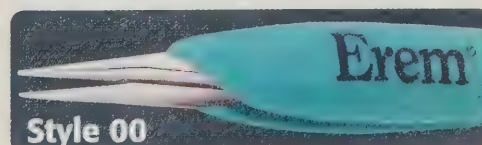
Sharpest points available. Relieved tip for micro assembly. 4-1/2" long.

Part No.	Model	Material	Price
416-379	E5SA	Stainless Steel Anti-Acid/Anti-Magnetic	\$24.95



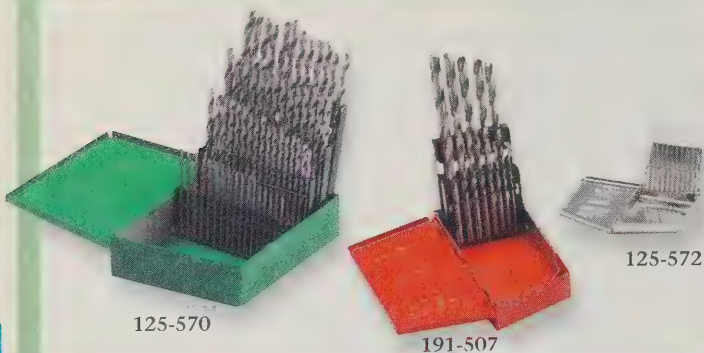
Curved, fine points, high precision tips. 4-3/4" long.

Part No.	Model	Material	Price
416-382	E7SA	Stainless Steel Anti-Acid/Anti-Magnetic	\$26.40



Strong sharp points. For general assembly. 4-3/4" long.

Part No.	Model	Material	Price
416-380	E00SA	Stainless Steel Anti-Acid/Anti-Magnetic	\$21.05



HANSON® High Speed Drill Sets

Constructed of the finest high speed steel. All sets include indexed metal storage cases.

125-570: 60-Piece Set includes #1 to #60 drill bits.

191-507: 13-Piece Set includes 1/16 to 1/4" drill bits.

125-572: 20-Piece Precision Drill Set includes hard-to-find very small sizes. Includes #61 down to #80 (0.039 - 0.0135") drill bits.

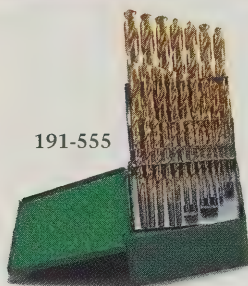
Part No.	Description	Price
125-570	60-pc. Drill Set	\$68.50
191-507	13-pc. Drill Set	\$16.50
125-572	20-pc. Drill Set	\$34.25

Titanium Drill Sets

■ Lasts 6X longer than high speed drills

1/64" size increments. Complete with indexed holder.

Part No.	Description	Size	Price
125-265	13-pc. Titanium Drill Bit Set	1/16"-1/4"	\$39.60
191-555	Titanium Drill Set, 29 pc.	1/16 - 1/2"	\$232.00



16-Piece Pilot Point® Drill Bit Set

- No walking, no spinning, no breaking
- The perfect tool-kit addition

Split-point tip starts holes on contact to eliminate bit walking. Drills faster than standard bits. Patented recessed cutting wings drill clean, round holes without burrs. Shank features three machined flat surfaces to eliminate chuck spinning. Tapered web provides greater durability to reduce breaking. Permanent size markings. Includes heavy-duty plastic case. 1/16 to 1/2" sizes.

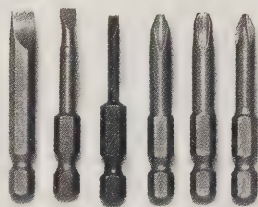
Part No.	Description	Price
424-451	16-Piece Pilot Point Drill Bit Set	\$28.00



Cordless Screwdriver Accessory Set

Set of six 2" long, screwdriver bits. Contains three Phillips bits, #1, #2, #3 and three slotted bits, 1/8, 5/32, 1/4". For use with all tools with 1/4" female hex drive.

Part No.	Description	Price
945-373	Phillips/Slotted Set, 6 pc.	\$7.10



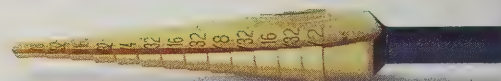
Drill-Tree Step Drills

■ Super-hard titanium-nitride coated, stays sharper longer

191-587 drills 13 different hole sizes in 1/32" increments.

191-573 drills 9 different hole sizes in 1/16" increments.

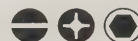
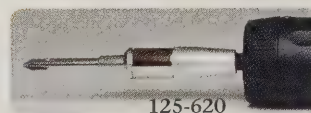
Part No.	Description	Width	Depth	Size	Price
191-587	Step Drill	1/8 - 1/2"	1/8"	1/4"	\$30.10
191-573	Step Drill	1/4 - 3/4"	1/8"	3/8"	\$52.00



Step Drills

Set contains 3 bits: #1 drills, 13 sizes in 1/32" increments in 1/8" material, #2 drills, 6 sizes in 1/16" increments in 3/8" material and #3 drills, 9 sizes in 1/16" increments in 1/8" material. Use in 3/8" power drills.

Part No.	Description	Size	Price
181-043	Unibit Set, 3 pc.	1/8 - 3/4"	\$78.95
125-636	Unibit #1	1/8" - 1/2"	\$21.65
125-640	Unibit #2	3/16" - 1/2"	\$22.40
125-641	Unibit #3	1/4" - 3/4"	\$40.15

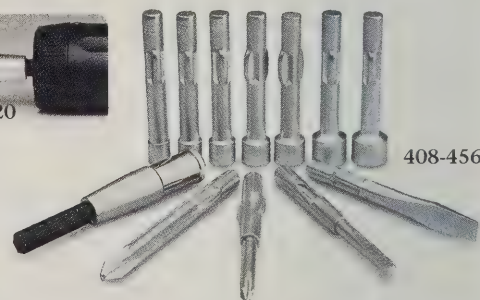


Power Drive 99 Series Screwdriver/Nutdriver Set

This unique set is designed for use with a 1/4" hex drive cordless screwdriver. Set contains an adapter, 1/4" hex male to 99 Series female, seven nutdrivers; 3/16, 7/32, 1/4, 9/32, 5/16, 1-1/32, 3/8"; two slotted screwdrivers; 3/16 and 1/4"; two Phillips screwdrivers; #1 and #2 and a plastic storage pouch.

Part No.	Description	Price
408-456	99 Series Screwdriver/Nutdriver Set, 12 pc.	\$21.90
125-620	1/4" Hex-to-99 Series Adapter*	\$5.65

* 125-620 adapts any 1/4" female hex drive tool to Xcelite 99 Series Tools on page 260.





Rapid Load Drill/Driver Set

Quick and easy accessory changes allow users to finish jobs faster. Hex shank locking system prevents bits from slipping. Rapid Load holder fits all brands of corded/cordless 3/8" or 1/2" drills. Includes Rapid Load holder; magnetic drive guide; 1/4" x 1-7/8" and 5/16" x 1-7/8" magnetic nut drivers; 1/4" and 3/8" socket adapters; 1/16, 3/32, 1/8, 5/32 and 3/16" hex shank drill bits; #1, #2 Phillips 2" Power bits; #8, #10 slotted 2" Power bits; #1, #2 Phillips 1" insert bits; #1, #2 square-recess 1" insert bits; #2 square-recess 2" Power bit; #8 slotted 1" insert bit and rugged storage case.

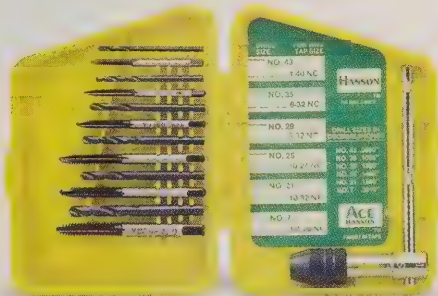


Part No.	Description	Price
419-607	Rapid Load Drill/Driver Set, 30pc	\$45.85

HANSON®

Drill and Tap Set

Taps 4-40NC, 6-32NC, 8-32NC, 10-24NC, 10-32NF and 1/4-20NC. T-handle tap wrench. Hinged plastic case with chart showing matching drill for each tap.



Part No.	Description	Price
409-252	Drill and Tap Set, 13 pc.	\$23.80

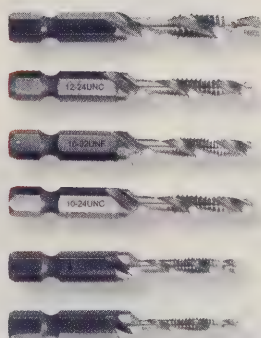


New

Combination Drill/Tap Bits

Drill the Proper Hole Size and Tap the Hole in One Operation

- Back taper beyond tap to prevent thread damage from over-drilling
- Deburr/countersink feature beyond back taper
- Made from high speed steel for long life
- 1/4" quality hex shank for a strong connection to drill chuck
- Designed to tap up to 10 gauge metal



Part No.	Description	Size	Price
425-512	6-pc Drill/Tap set	6-32 to 1/4-20	\$36.51
425-513	Drill/tap bit	6-32NC	\$6.74
425-514	Drill/tap bit	8-32NC	\$6.74
425-515	Drill/tap bit	10-24NC	\$6.74
425-516	Drill/tap bit	10-32NC	\$6.74
425-517	Drill/tap bit	12-24NC	\$6.74
425-518	Drill/tap bit	1/4-20NC	\$6.74

X-OUT Damaged Screw Remover Set

Quickly and easily removes fasteners with damaged screw heads. Designed to be used with standard 3/8" or larger power drill/drivers. Unique design plows into the screw and turns it out in one operation. No drilling required. Works with many screw types including Phillips, Torx, Robertson, One-way, etc. Includes three different sizes and molded storage case.



Part No.	Description	Price
55-201	X-OUT Damaged Screw Remover Set	\$25.45



403-674



401-415



406-839

Drill-Out® Power Extractor Sets

Drill and extract up to grade 8 bolts, class 5.6 to 10.9 and stainless steel. The drill point eliminates walking, no centering tools needed. Use with 3/8" VSR drill. **401-415** includes sizes 1/4"/M6, 5/16"/M8, 3/8"/M10, 1/2"/M12. **403-674** includes sizes #5/M3, #8/M4, #10/M5 and 1/4"/M6. **406-839** includes all the above bits. Compact storage case included.

Part No.	Description	Price
401-415	Regular Drill-Out Set	\$72.05
403-674	Micro Drill-Out Set	\$60.80
406-839	Master Drill-Out Set	\$100.00



Variable Pitch Hole Saws

Cobalt teeth cut clean, accurate holes in steel, fiberglass, wood and plastics. Saws are 1-5/8" deep with plug knock-out slots. 64-830 saw sizes: 7/8, 1-1/8, 1-3/8, 3/4, 2 and 2-1/2". 64-834 saw sizes: 3, 5/8, 1/8, and 4-1/2". Both sets include three arbors with replaceable pilot drills, 1/4" chuck and 5/16" hex shafts. Spring loaded arbor.



Part No.	Description	Price
64-830	Standard Hole Saw Kit	\$122.15
64-834	Large Hole Saw Kit	\$165.45



DEWALT

1/2" 18-Volt Heavy-Duty Cordless Drill/Driver

- Now with XR+ Pack Extended Run-Time Batteries

1/2" ratcheting keyless chuck lock. Upgraded high-torque motor with 450 in./lbs. torque. Anti-slip comfort grip. XR+ extended runtime battery packs. T-handle design for excellent balance. Three-speed, all metal transmission, 0-450/0-1600/0-2000 RPM. Adjustable clutch. 360° adjustable side-handle. Includes drill/driver, two XR+ battery packs, 1-hour charger with Tune-Up™ mode, double-ended screwdriver bit, heavy-duty carrying case. 115VAC charger. One-year manufacturer's warranty.

Part No.	Description	Price
425-132	DC987KA 1/2" 18V Heavy-Duty Cordless Drill/Driver	\$502.00
416-967	Replacement 18V Battery Pack	\$140.75



DEWALT

1/2" 14.4-Volt Cordless Drill/Driver

Built Series 4000 high torque motor delivers 400 in.-lbs of maximum torque. Exclusive 3-speed all metal transmission features a max 3rd Speed at 0-1,800 rpm which is 29% faster than high speed. 1/2" ratcheting chuck lock prevents bits from slipping. Extended run-time batteries provide more work per charge and maximum number of recharges with no memory. Superior ergonomics and balance for increased comfort and control. Kit includes 1 hour charger, (2) 14.4V pack batteries, double-ended screwdriver bit, heavy-duty kit box and one year manufacturer's warranty.

Part No.	Description	Price
419-697	1/2" Cordless Drill/Driver Kit	\$339.00
836-991	14.4V XR Extended Run-Time Battery	\$89.95

DEWALT

12-V Cordless 3/8" Drill Driver Kit

- 2 battery packs included

Heavy-duty drill/driver is compact and lightweight. 300 in./lbs. maximum torque. Adjustable clutch. Dual-range, variable speed: 0-400RPM and 0-1400RPM. Reversible. T-handle design for excellent balance Maximum drilling capacity 1" wood and 3/8" steel. Includes drill/driver, two battery packs, charger, screwdriver bit and heavy-duty kit box. 115VAC charger. 3.9 lbs. One year manufacturer's warranty.

Part No.	Description	Price
419-714	DC727KA 3/8" 12V Cordless Drill/Driver	\$258.00



DEWALT

1/2" 24-Volt Heavy-Duty Drill/Hammerdrill Kit

- Now includes 2 heavy-duty fan-cooled battery packs

Combines drill and hammerdrill functions in one powerful tool. 550in./lbs. of torque. All metal chuck with carbide-tipped jaws prevents bit slippage in high-torque and hammerdrilling applications. 360° side handle. Dual-range, variable speed 0-450 RPM and 0-2,000 RPM. 0-7650 and 0-34,000 BPM. 1/2" steel, 2 9/16" wood and 1/2" concrete capacity. 8.4 lbs. Kit includes drill, battery charger, two heavy-duty fan cooled battery packs, side handle and storage/carry case. Optional 836-008 AC/DC Power Adapter installs on drill in place of battery and allows operation from 120VAC.

Part No.	Description	Price
418-910	DW006K-2 1/2" Heavy-Duty Drill/Hammerdrill Kit	\$566.00
418-909	DW0242/Replacement 24V Battery Pack	\$174.00



1/2" Corded Hammer Drill

For percussion carbide-bit drilling in concrete and masonry or drilling without hammering in wood or metal. Hammer drill up to 7/8" holes in concrete and masonry. Dual speed range: Low, 0-1350 RPM; High, 0-3200 RPM. 0-52,000 blows per minute. Turn collar for selection of hammer drill or drill only. Adjustable depth rod and side handle. Double insulated. 6.5 amp motor. 115VAC.

Part No.	Description	Price
306-378	5378-20 1/2" Corded Hammer Drill	\$199.95



9.6 Volt Cordless 3/8" VSR Deluxe Drill Driver Kit

Includes Two Batteries

- 2-speed gear selection, 0-350 RPM & 0-1,100 RPM
- 16 Torque settings

Compact body, and T-handle design provide balance and comfort. Tool weighs 3.1 lbs. and is only 8" long. Features sixteen torque settings (forward and reverse), keyless chuck and electric brake. Comes complete with 2 batteries, charger, battery cover, Phillips/slotted bit and carrying case.

Part No.	Model	Description	Price
418-670	6226DWE	3/8" Cordless Drill/Driver Kit	\$194.00
418-671	192638-6	Extra Battery Pack	\$69.95





Heavy-Duty 1/2" VSR Drill

Rugged corded drill features 7.8 amp heavy-duty motor and helical-cut steel heat-treated gears. Metal gear housing. Rubber grip and two-finger rubber trigger for increased comfort. Jacobs® keyless chuck with spindle lock. 360° side handle. 0-850 RPM. Reversible. 115VAC. One year manufacturer's warranty.

Part No.	Description	Price
836-236	Heavy-Duty 1/2" VSR Drill	\$225.40



3/8" 12-Volt Cordless Right-Angle Drill/Driver Kit

Features 180 in./lbs. torque for turning large drill bits and fasteners in tight confines. Dual-range, variable speed: 0-400 RPM and 0-1200 RPM. Reversible. Sealed ball bearing construction with cut-steel gears. Comfortable grip and rubber trigger. Includes drill/driver, one hour charger, 2 battery packs and a high-strength carrying case. 115VAC charger. 4.1 lbs. One year manufacturer's warranty.

Part No.	Description	Price
418-911	DW965K2 3/8" 12V Cordless Right-Angle Drill/Driver Kit	\$279.00



Cordless Reciprocating Saw

Compact and lightweight. Cuts drywall, wood, steel, pipe and more. 2700 SPM with 9/16" stroke. Includes saw, battery, charger, steel and wood blades and hex wrench. 9.6V, 1.3A/hr battery. 3.1 lbs. 115VAC charger. One year manufacturer's warranty.

Part No.	Description	Price
882-439	9.6V Cordless Reciprocating Saw	\$167.00
882-440	Replacement blades, wood, 5/pk.	\$11.65
882-441	Replacement blades, metal, 5/pk.	\$12.95



3/8" 9.6-Volt Cordless Drill/Driver

■ Includes 2 batteries

Compact size and lightweight, weighs only 3.4 lbs. 200 in.-lbs of maximum torque output provides for a superior power to weight ratio in both fastening and drilling applications. All metal planetary gears for increased durability and power. Dual-speed range 0-300/0-1,100 rpm for a wide range of applications. 16 position adjustable clutch offers maximum versatility and control. Heavy-duty keyless chuck offers durability and convenience. Professional grade variable speed trigger switch provides for maximum control and versatility in all applications. Includes 1 hour charger, (2) 9.6V compact batteries, double-ended screwdriver bit, heavy-duty kit box and one year manufacturer's warranty.

Part No.	Description	Price
424-050	3/8" 9.6-Volt Cordless Drill/Driver	\$141.54



7.2V Cordless Screwdriver 1/4" Hex Chuck

Includes Heavy-Duty Carrying Case

Heavy-duty screwdriver features 80 in./lb. of maximum torque. Adjustable 2-position handle. Variable trigger speed 0-500RPM. Reversing. Quick release 1/4" hex chuck for positive bit retention. 16-position clutch. Metal gearbox and metal planetary transmission. Fan-cooled motor. 3/8" wood and 1/4" steel drilling capacity. Includes one-hour charger, two screwdriver bits and heavy-duty carrying case. 115VAC charger

Part No.	Description	Price
836-920	DW920K-2 7.2V Cordless Screwdriver	\$179.95



High-Performance Sawzall® Plus Reciprocating Saw

Cuts any sawable material. No starting hole needed for plunge cuts. Heavy-duty construction with all ball and roller bearings. Aluminum gear case. Trigger variable speed control. 0-2800 strokes per minute. Reversible blade. Quick shoe adjustment. Quik-Lok™ blade clamp for fast, easy blade changes. 8.5 amp motor. 8', 3-wire Quik-Lok detachable cord. Includes Sawzall, 2-blade pack, Quik-Lok power cord and impact resistant carrying case.

Part No.	Model	Description	Price
419-377	6519-21	Sawzall Plus Reciprocating Saw, 115VAC	\$209.00
419-362	-	2-Blade Pack, wood/metal	\$6.55



75-Piece Variable-Speed MultiPro™ Tool Kit

Grind, Sharpen, Drill, Polish, Sand and More

■ Comfort grip housing for easier handling and better control

This tool is used for cutting, grinding, carving, sanding, polishing, drilling, sharpening and slotting. You can work with wood, metal, plastic and more. The compact, shatter-resistant housing fits comfortably in your hand to provide precise finger-tip control. Double insulated motor does not require grounding. Variable speed allows you to operate the tool from 5,000 to 35,000 RPM (ball bearing construction). Features a quick change collet nut (1/8" collet). Operates at 115VAC and comes complete with two-wire flexible coiled cord, 75 accessories and bits, grout removal attachment, storage case with clear window, and 5-year warranty.

Part No.	Model	Description	Price
418-688	3962-02	MultiPro Tool Kit	\$135.40



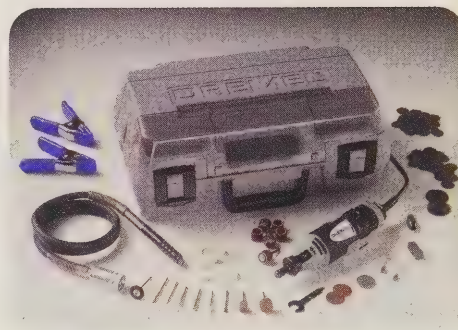
77-Piece Variable-Speed MultiPro™ Tool "Super" Kit with Flex-Shaft Attachment

Flex-Shaft Attachment is Ideal for Hard to Reach Places

■ Comfort grip housing for easier handling and better control

The Flex-Shaft Attachment included in this kit makes it easy to get at those hard-to-reach places, giving you fingertip control for household and craft projects. The attachment is 36 inches long and attaches easily to the new 35,000-rpm variable-speed multiPro included in the kit. With 77 accessory bits, the kit is versatile and ideal for users of any ability.

Part No.	Model	Description	Price
420-658	3956-02	MultiPro Tool "Super" Kit	\$145.00



Dremel Professional High-Speed Rotary Tool

Variable speed tool features electronic feedback controller enhancing performance at low and mid-speed. Digital LCD read-out displays tool speed with 1000 rpm increments. 5,000 - 30,000 rpm. Up/down pushbutton speed control. "Soft Start" feature. Lightweight, balanced and ergonomic design is easy to handle. Ball bearing construction. High-volume fan and replaceable motor brushes. 10' power cord. 10-piece accessory assortment and rugged storage case. Five year manufacturer's warranty.

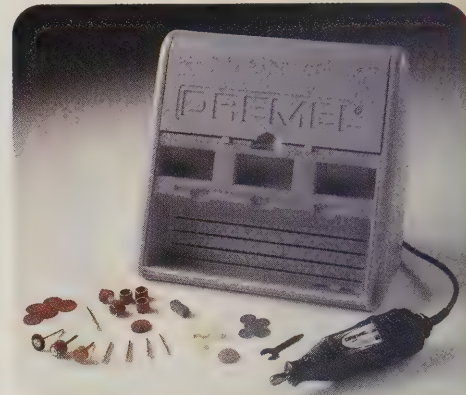
Part No.	Description	Price
22-981	Professional High-Speed Rotary Tool	\$160.10



40-Piece Two-Speed MultiPro™ Tool Kit

15,000 rpm and 35,000 rpm. Permanently lubricated bronze sleeve bearing. Comes complete with 35 accessories, fitted carrying case with clear window, and 5-year warranty.

Part No.	Model	Description	Price
418-689	2850-02	40-pc. Two-Speed MultiPro Tool Kit	\$94.49



9.6V Cordless Rotary Tool Kit

Power and speed in a lightweight cordless tool offers unlimited versatility. High-capacity detachable 9.6V battery delivers long run time. Variable speed 5000-25,000RPM. Comfort-grip housing. 3-hour charger. Works with all Dremel attachments and accessories. Includes cordless tool, one battery pack, charger, 10 accessories and rugged storage case.

Part No.	Description	Weight	Price
419-747	Cordless Rotary Tool Kit	3.5 lbs.	\$120.93



Engraver

Marks tools, equipment, materials of all kinds, even glass. Easy-to-use with controls for depth of engraving. High-speed reciprocating motor provides 7200 strokes/min. Nylon housing. Replaceable carbide tip.

Part No.	Description	Price
125-655	Engraver, 115VAC	\$24.63
125-684	Replacement Carbide Tip	\$7.72
22-929	Replacement Diamond Tip	\$10.45



For a selection of Dremel Tungsten Carbide Cutters visit contacteast.com and jensentools.com



Panasonic

3.6V Cordless Screwdriver Kit

- Fully charged in 15 minutes
- One touch bit lock system
- Auto stop function
- "No Memory" battery
- Adjustable torque
- Two speed with reverse

Powerful, compact screwdriver features 39 in. lbs. torque and 22-stage clutch offering torque accuracy within +/- 5%. Included calibration chart indicates torque for each clutch setting, from 2.6 in. lbs. on lowest setting up to 26 in. lbs. on highest setting. Auto shut-off clutch extends battery and clutch life by immediately stopping rotation once torque setting is reached. Dual speed 200/600 RPM reversible. 3.6V, 1.2Ah battery. Includes driver, 15 minute fast charger, battery pack, #1 and #2 Phillips bits. One year manufacturer's warranty.

Part No.	Description	Price
409-950	3.6V Cordless Screwdriver Kit	\$187.15
409-951	Replacement 3.6V Battery Pack	\$49.95
412-774	15-Minute Charger, 115VAC/2.4VDC	\$93.75

* Battery charger will charge both 2.4 and 3.6V Panasonic brand batteries.



JENSEN

Cordless Screwdriver Kit

- Extra battery pack included
- 40 various bits and sockets

3.6 volt cordless screwdriver kit for small jobs. Adjustable clutch with six preset torque settings from 6.5 lb. in. to 27.5 lb. in. When properly adjusted, the clutch will slip at a preset torque to prevent driving the screw too deep or to prevent damage to the screw and the tool. Includes cordless driver, two 3.6V battery packs, battery charger, 14-piece socket set: 6 - 12mm, 3/16" - 1/2", 26-piece bit set: 3 slotted, 5 torx, 3 Phillips, 3 Robertson, 12 hex bits, 1 bit holder, AC adapter, and molded hard storage case.

Part No.	Description	Price
423-307	3.6V Cordless Screwdriver Kit	\$58.85

Offset Power Screwdriver Head

- Fits power drivers with 1/4" hex drive or chuck

Allows you to fasten or remove screws located in channels, under edges or in areas where any regular driver cannot reach. Magnetic head will accept any 1/4" hex drive bits. Fully 360° adjustable thumb flange with slip-fit action allows you to apply the maximum force and control.

Part No.	Description	Price
115-614	Offset Power Screwdriver Head	\$32.80

Jacobs

Adapt-A-Drive® Chuck

- Converts your cordless screwdriver to a mini-drill
- Ideal for starting screw holes

1/4" hex mount locks the chuck into the screwdriver bit socket to convert any cordless screwdriver to a multi-purpose mini-drill for bit sizes up to 1/4". Comes complete with chuck key.

Part No.	Description	Price
403-275	Adapt-A-Drive Chuck	\$15.95

Panasonic

2.4V Cordless Screwdriver Kits

- 2.4 volts
- Adjustable torque: 3.5-26 in./lbs.
- Converts from stick to pistol form
- Accepts 1/4" hex drive bits
- Two speed with reverse

Powerful, lightweight screwdriver features forward and reverse operation, two speeds (200/400 rpm) and six clutch settings. 2.4V battery pack. 271-503 comes with a standard one-hour charger and battery pack. 115-657 comes with a 15-minute charger and battery pack. Both models include one slotted and two Phillips screwdriver bits which store inside charger. One year manufacturer's warranty.

Part No.	Description	Price
271-503	Cordless Screwdriver with One-Hour Charger	\$115.05
115-657	Cordless Screwdriver with 15-Minute Charger	\$149.40
115-665	Replacement Battery Pack	\$28.75
402-315	One-Hour Charger, 115VAC/2.4VDC	\$42.50
412-774	15-Minute Charger, 115VAC/2.4VDC	\$93.75

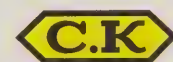
Xcelite

Cordless Rechargeable Screwdriver

- 3.6 Volts
- 1/4" hex drive
- Adjustable torque
- Fully charged in 1-hr.
- Two speed with reverse

Professional rechargeable cordless screwdriver features forward and reverse operation with speed selection of high (360 RPM) and low (180 RPM). Eight stage torque control extends from 6.5 lb. in. to 27.5 lb. in. Hinged handle easily changes from in-line operation to pistol-grip position. Lightweight and easy to maneuver, weighs slightly under one pound. Comes complete with: battery, one hour charger, Xcelite 99PA adapter for use with all 99-Series driver blades, one 1/4" slotted power bit, two Phillips power bits: #1 and #2.

Part No.	Model	Description	Price
191-746	XP1	Cordless Screwdriver Kit	\$115.20
191-132	XP1B	Extra Battery Pack	\$26.60



Magnetic Bit and Screw Holders

Enable Simple One-Hand Drill/Driver Operation

Save time and increase productivity with these innovative bit and screw holders. The adjustable, lockable chuck accepts any 1/4" hex drive insert bit, and the ring magnet at the tip keeps screws firmly in position. Model 4565 accepts all standard and large screws, including self-tapping, and anchor screws, while Model 4565-1 accepts smaller screws, including #1 Phillips and T5 to T15 Torx screws. Bit and screw holders fit any power drill or driver with a 1/4" female hex drive.

Part No.	Description	Price
419-706	Magnetic Bit and Screw Holder, Large Screws	\$23.58
419-707	Magnetic Bit and Screw Holder, Small Screws	\$16.24



Cable Tie Installation Tools

- Speeds tie application
- Cut ties flush for safety

Use these tools for applying a wide variety of ties to cable bundles making for a fast application and a clean cut-off. All the tools except the QC-100 have adjustable tensioning to control the amount of grip the tie exerts on the item it's wrapped around.

462-100 is a lightweight pocket sized tool for least critical applications.

462-101 is an economy tool. Made of metal it has an automatic cut-off that removes excess strap flush against cable tie head.

462-102 is a heavy-duty version of L-200 and made of glass-filled plastic. The lighter weight is easy on the wrist.

462-103 Ty-Gun™ offers a 380° rotatable nose so tool can be used in any position. An adjustable hand span and anti-recoil mechanism reduces vibration shock and wrist stress. Weighs only 8.5 oz.

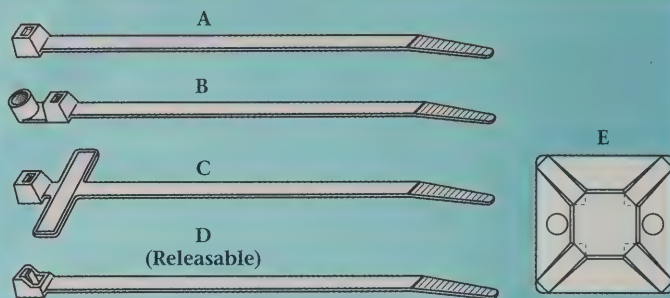
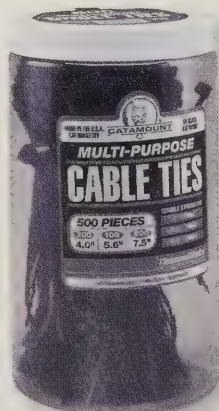
462-104 is similar to the ERG-299 but has a red handle and is for greater strength ties.

Part No.	Description	Tensile Strength	Price
462-100	QC-100 Pocket Cable Tie Tool	18-50 lbs.	\$21.40
124-841	L-200 Economy Cable Tie Tool	18-50 lbs.	\$51.50
462-102	L-400-C Heavy-Duty Cable Tie Tool	18-50 lbs.	\$122.15
462-103	ERG-299 Ty-Gun Cable Tie Tool	18-50 lbs.	\$169.65
462-104	ERG-297 Heavy-Duty Ty-Gun Cable Tie Tool	50-120 lbs.	\$273.00

500 Multi-Purpose Cable Ties

Bundle of 200 4" 18 lbs. strength, 100 5.6" 30 lbs. strength, and 200 7.5" 50 lbs. strength cable ties for many uses. UV rated and comes in a convenient plastic container. (USA)

Part No.	Description	Price
462-062	500 Multi-Purpose Cable Ties	\$11.90



Black Nylon UV Rated Cable Ties and Mounts

These nylon ties and mounts are designed to aid in lashing cables together for a clean installation. Each size is rated for tensile strength and works with any of the tensioning tools listed.

Part No.	Type	Package QTY	Length	Max. Fastener Dia. (in.)	Tensile Strength	Price
462-105	A	500/pk.	14"	4"	50 lbs.	\$29.04
462-106	A	1000/pk.	8.5"	2"	40 lbs.	\$27.05
462-107	A	1000/pk.	6.5"	1.5"	18 lbs.	\$19.50
462-108	A	100/pk.	7.5"	1.75"	50 lbs.	\$3.20
462-109	A	1000/pk.	4"	5/8"	18 lbs.	\$10.60
462-110	A	100/pk.	8"	2"	18 lbs.	\$3.60
462-111	A	100/pk.	5.5"	1.25"	30 lbs.	\$2.55
462-112	A	100/pk.	14"	4"	120 lbs.	\$12.90
462-113	B	100/pk.	7.5"	1.75"	50 lbs.	\$6.30
462-116	C	100/pk.	4"	.75"	18 lbs.	\$6.40
462-119	D	100/pk.	8"	2"	50 lbs.	\$6.55
462-117	E	100/pk.	.75 x .75" Self Adhesive Mount for 18-40 lb. Ties	—	—	\$7.30
462-118	E	100/pk.	.75 x .75" Screw-on Mount for 18-40 lb. Ties	—	—	\$10.20

*Natural color and not UV rated.

Ty-Rap Self-Lock Cable Ties

Red Cable Ties are Suitable for Air Handling Spaces in Accordance with NEC Section 300.22 (C) & (D)

An exclusive locking device is your assurance of reliability. The stainless steel locking device is permanently embedded in the nylon head. The tie is infinitely adjustable to any diameter within its own range. All the self-locking ties exceed the minimum pullout strength requirements specified in MIL-S-23190. The self-locking tie is particularly well suited for both point-to point wiring and harness fabrication. UL Listed. available in packs of 1000.

Part No.	Description	Price
462-063	4" Ty-Rap Self Locking Cable Ties	\$39.30
462-064	7" Ty-Rap Self Locking Cable Ties	\$70.85
462-065	11" Ty-Rap Self Locking Cable Ties	\$190.75



For an expanded selection of Cable Ties and Workholders visit contacteast.com or jensentools.com



Adjustable Work Positioners

■ Tilt and turn to any position

The unique Panavise work-holding system is the most versatile we have seen. System combines a rotating vise head and ball joint base that allow you to position your work at any angle. One knob controls and locks all movements. The vise head turns a full 360° in the throat of the ball joint in base. The ball joint unit also rotates a full 360° and permits vise head to be tilted 90° in any posi-

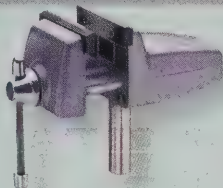
tion. This makes it possible to move your work at any desired drag tension, or to lock it firmly in any position, at any angle, or facing any direction around the base, leaving both hands free for work. Base positioners accept 5/8" diameter stems and are completely interchangeable with all vise heads. Just select the vise head and base combination(s) that fit your requirements.



Vise Heads

Standard Vise Head

Jaws are 2-1/2" (63mm) wide and open to 2-1/4" (57mm). Throat depth is 1-5/16" (33mm). Head is die-cast aluminum alloy with steel and brass inserts. Jaws have nylon lips. Stem, 5/8" diameter, (16mm) fits all positioner bases.



Part No.	Model	Price
67-135	303	\$25.75

Wide Opening Head

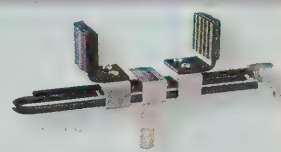
Grip range is 0 to 6-1/2" (165mm). Jaw pad width is 1-3/4" (44mm). Throat depth is 2" (51 mm). Reversible, replaceable pads are made of neoprene. Stem, 5/8" diameter, fits all positioner bases.



Part No.	Model	Price
119-455	366	\$34.65

Wide Opening, Self-Centering Head

Holds heavier objects in the extra wide capacity (9") double action head. Pads are reversible, replaceable, made of neoprene. 5/8" diam. stem fits all positioner bases.



Part No.	Model	Price
119-456	376	\$46.90

Vise Bases & Accessories



Vacuum Base

Attaches instantly and firmly to any smooth, nonporous surface. Ideal portable positioner for quick, changeable setups. A flip of the lever attaches the heavy-duty suction pad. Sturdy die-cast construction 3-3/16" H x 5" W x 4-1/4" D.

Standard Base

Has three lugs for permanent installation to bench, wall, or work station. Sturdy die-cast construction. 3-13/16" H x 5" W.



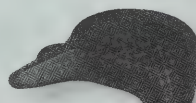
Low-Profile Base

Only 2-5/8" high for working close to your bench or table. Three lugs for permanent installation. Sturdy die-cast construction.



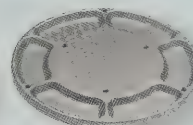
Bench Clamp

Fits Standard and Low Profile Bases described above. Provides security of permanent mount, yet is fully portable. Comes drilled and tapped with screws to mount base to clamp. Clamps to edge of table or bench up to 3-1/2" thick.



Weighted Base Mount

Compact and stable cast iron base mount weighs 5 lbs. Features 4 non-marring, anti-skid base pads, 3 pre-drilled mounting holes and comes complete with mounting hardware.



Tray Base Mount

Cast aluminum base-mount holds and stabilizes the 300 standard or the 305 low-profile base. Six individual molded-in trays hold small parts and tools. 8-1/4" wide.



Circuit Board Holder

Holds PC boards up to 12" wide (305mm) exactly where you want them - flat, vertically, or any angle in between. V-grooved, 6" aluminum arms may be moved independently. One arm is spring loaded for quick insertion and removal of boards. Holds boards up to 5/32" thick (4mm). Stem, 5/8" diameter, fits all positioner bases.

Part No.	Model	Price	Part No.	Model	Price	Part No.	Model	Price	Part No.	Model	Price	Part No.	Model	Price	Part No.	Model	Price			
67-127	300	\$21.40	67-154	380	\$34.70	119-442	305	\$21.40	67-141	311	\$40.80	119-443	308	\$30.60	119-445	312	\$20.40	119-446	315	\$33.65

The Original Standard PanaVise

- All purpose workholder
- Includes vise head and base
- Vise head tilts, turns, and rotates with one knob and moves easily through three planes: 360° rotation, 360° swivel, and 90° pivot

The original standard PanaVise is an all-purpose work holding unit, perfect for both industrial and home hobbyist applications. Base has three lugs for permanent installation to bench, wall or work station. Head is die-cast aluminum alloy with steel and brass inserts. Jaws are 2-1/2" (64mm) wide and open to 2-1/4" (58mm). The base features a 4-5/16" (111mm) bolt circle. Original PanaVise stands 6-3/4" (173mm) tall, weighs 2 lbs, 11 oz. (1.2kg).



Standard PanaVise

- Tilt, turn, and rotate versatility of the original PanaVise plus a powerful vacuum base for portability

Vacuum base model combines original Model 301 head with a powerful suction pad base that allows rapid set-ups in a variety of locations. Attaches instantly with a flip of the lever to smooth, non-porous surfaces. Stands 6-1/8" tall and weighs 2lbs. 13oz. (1.3kg).



Part No.	Model	Description	Price	Part No.	Model	Description	Price
67-301	301	Standard PanaVise	\$44.99	407-274	381	Vacuum-based PanaVise	\$59.15



Static-Dissipative PLCC Extractor

Removes Components without Damage

Universal extraction tool can be used on all socketed PLCCs. Features hardened stainless steel hooks, self-opening spring and static dissipative plastic handles. Easy-to-use. Insert hooks into the socket corners, squeeze the handles and the PLCC will be lifted out of the socket without damage to the leads.

Part No.	Description	Price
126-453	Static-Dissipative PLCC Extractor	\$16.83

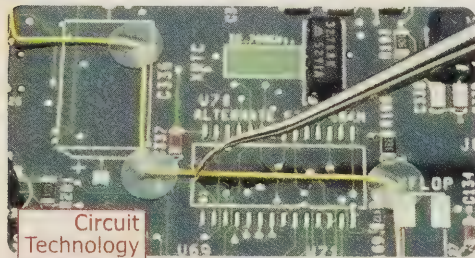


DIP Insertion/Extraction 5-Piece Kit



5-piece kit designed for safe insertion and extraction of all ICs from 14 to 40 pins. Kit includes three insertion tools, Model MOS1416 (14-16 pins), MOS2428 (24-28 pins), and MOS40 (36-40 pins), and two extractors, Model EX1 (8-24 pins) and EX2 (24-40 pins). Tools are conductive, and grounding lugs are provided on all models except EX1.

Part No.	Model	Description	Price
118-957	WK-7	Insertion/Extraction 5-pc. Kit	\$76.75
118-944	MOS-1416	Insertion Tool Only (14-16)	\$18.10
118-945	MOS-2428	Insertion Tool Only (24-28)	\$18.10
118-946	MOS-40	Insertion Tool Only (36-40)	\$20.80
118-939	EX2	Extraction Tool Only (24-40)	\$21.50
118-938	EX1	Extraction Tool Only (8-24)	\$3.00



Tape Dots

No more hot glue, or super glue mess. Hold wires permanently with tape dots. Just peel and stick for a quick, neat job. Withstands solvents and aqueous wash. 450/pkg.

Part No.	Model	Description	Price
428-994	310-0652	Tape Dots	\$40.00

DIP Lead Straightener

Double-sided precision DIP lead straightener is fabricated in hardcoat anodized aluminum with precision roller bearings. Comes with a factory set gap of .017" and has an adjustment range of 0" to 0.60". Two models to choose from. Part No. 118-935 is used with .300" and .400" DIPs. Part No. 118-936 is used with .300" and .600" DIPs. Both models measure 5" x 3" x 1-1/2" and come with a snap for a grounding strap.

Part No.	Description	Price
118-935	DIP Straightener for .300 & .400 ICs	\$157.65
118-936	DIP Straightener for .300 & .600 ICs	\$96.95



DIP Lead Straightener

A simple hand tool to straighten DIP leads to their original angle for easy insertion in PC boards. One side of tool has guide for 0.300" devices. The other side accepts 0.600" widths. Simple to use. Place DIP on tool guide and just squeeze handle. Available in tough thermoplastic, anti-static material for handling static-sensitive devices.

Part No.	Description	Price
118-956	Anti-Static DIP Lead Straightener	\$24.60



Micro "Pry-Bar"

Helps Remove DIPs from PC Board

Permits you to remove components, DIPs and wires from printed circuit boards fast and without damage. One end has specially shaped slotted hook that fits under ICs and components for gently prying them off circuit board. Other end has hole that fits over wires to wiggle them loose.

Part No.	Description	Price
118-958	Micro "Pry-Bar"	\$7.70



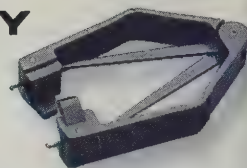
122-566

PLCC Extractor

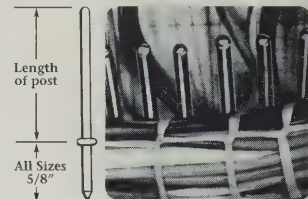
For 20- through 124-pin PLCCs

Fits into the slots on opposing corners of the socket and easily removes the PLCC without bending or breaking the leads.

Part No.	Description	Price
122-566	Plastic Hinged Extractor, Original BURNDY	\$31.20



Harness Board Posts



Hardened and tempered steel posts specially made for assembly of wire harnesses. Can be driven into board or inserted in drilled holes. Rounded top and nickel finish assures safe nesting of wire without any sharp edges or rust spots damaging insulation. Uniform driving depth assured by a collar stop.

Part No.	Post Diam.	Length	Price Per 200
130-096	.073"	1"	\$75.50
130-095	.082"	1-1/2"	\$92.50
130-098	.093"	2"	\$94.95
130-099	.120"	3"	\$101.85



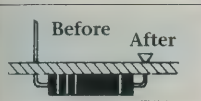
SMD Removal Kit

Safely Removes SMDs Using Low Heat

Sony Service part # T9985642

Fast and easy to use - Simply apply flux to all leads of the SMD. With a soldering iron, heat gun, or hot air tool melt the desoldering alloy on all of the leads. The combination of existing solder plus the desoldering alloy melts at less than 200°F and remains molten long enough for removal of SMD using tweezers or pickup tool. Clean off pads using the alcohol pad, then install new device. Other applications include: clean up of SMD and BGA pads. Each kit provides enough product to remove between 8 - 10 SMDs (approximately 1250 - 1500 leads). Kit includes: low temperature (136°F) desoldering alloy, liquid no clean flux, and alcohol pads. Replacement desoldering alloy available in two sizes; Part No. 418-325, 16 ft. in 6.5" lengths or Part No. 418-326, 32 ft. in 6.5" lengths.

Part No.	Model	Description	Price
407-514	SMD-1	SMD Removal Kit	\$18.55
418-325	SMD-16	Desoldering Alloy 16 ft.	\$101.50
418-326	SMD-32	Desoldering Alloy 32 ft.	\$170.05



Model SP01
with CC1 Jaws

Air-Powered Cut and Crimp Tools Speed PCB Assembly

These lightweight, easy-to-use air tools provide fatigue-free cutting and crimping of component leads. Variety of quickly interchangeable jaw sets to choose from. Both MSP1 and SP01 Power Packs operate on 60 to 100 PSI. You simply squeeze lever to actuate jaws. Power Pack housing is made of aluminum with black anodized finish. Includes 5 ft. air hose, swivel support, and bracket. Power Pack prices do not include jaw set.

Part No.	Model	Max. Wire Diam.	Weight	Length	Diameter	Price
115-089	MSP1	0.030"	.7	4-1/2"	1-3/16"	\$259.75
115-114	SP01	0.050"	1.1	5"	1-1/2"	\$329.80



Jaw Sets

Secured in Power Pack with easily removable hex head screw. Can be used for both left- and right-hand operation. Cut and crimp jaws shear component lead wire at specified rise distance above surface of PC board. Crimping action flattens wires to prevent components from "popping up" during handling and soldering. Cut-only jaw sets give semi-flush cut. Made from hardened tool steel with rust-resistant black oxide finish. Approximate crimping dimensions for jaws used with SP01 Power Pack. These dimensions do not apply to MSP1 Power Pack. MSP1 crimping force is variable depending on air pressure.

Swaging Dimensions for Jaws Used with SP01				
Lead Diam.	Material	CC1	MCC	
.015"-.020"	Aluminum	.060"	.051"	
.015"-.020"	Hard Trans.	.050"	.040"	
.021"-.026"	Soft Wire Resistor	.052"	.050"	
.027"-.032"	Copper	.064"	.058"	
.033"-.038"	Copper	.069"	—	
.039"-.044"	Copper	.084"	—	
.045"-.050"	Copper	.090"	—	

Jaw Sets for SP01 Power Pack

Part No.	Model	Max Soft Wire	Rise	Angle	Length of Cut	Type	Price
114-998	CC1	.050"	.040"	45	3/8"	Cut/Crimp	\$96.20
115-066	MCC1	.030"	.030"	45	1/8"	Cut/Crimp	\$99.80
114-999	CD1	.050"	.007"	45	7/16"	Cut Only	\$99.30
115-000	CD3	.050"	.007"	15	3/4"	Cut Only	\$103.05

Jaw Sets for MSP-1 Power Pack

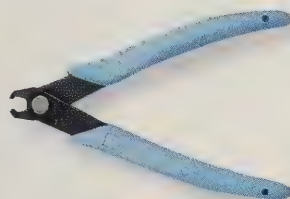
Part No.	Model	Max Soft Wire	Rise	Angle	Length of Cut	Type	Price
115-111	SMCC1	.030"	.030"	35	3/32"	Cut/Crimp	\$109.30
115-068	MCD2	.030"	.007"	35	5/16"	Cut Only	\$105.45



XURON CORP. XURO-FORMER™

Forms stand-off dimples in resistors, capacitors, and other axial lead components. Two models to choose from. Model 573 handles leads up to 0.030" diameter; Model 573L handles leads up to 0.050" diameter. Both models have adjusting screw for setting the desired radius and depth of bend. Slim design of jaws allows a stand-off as close as 0.062" to the component body. Made of high-carbon steel with black finish. Comes with long-life return spring and cushioned plastic-grip handles. Tools are 5" long.

Part No.	Model	Max Wire Diam.	Price
114-628	573	0.030"	\$26.10
114-629	573L	0.050"	\$26.10



XURON CORP. XURO CRIMP™ Cut-and-Crimp Tool

Cuts and crimps component lead wire with one squeeze of the handle. Crimped leads hold component on PC board prior to soldering. Designed for accessibility in confined areas. It is made of high-carbon steel with black-oxide finish, is 5" long, and comes with return spring and rubber-grip handles. Two models to choose from.

Part No.	Model	Max Wire Diam.	Price
114-927	670	Up to .031"	\$17.70
114-928	670HD	Up to .051"	\$20.75



**For fast,
dependable
service, you can
count on Contact East.**

Double-Sided Lead-Bending Gauge

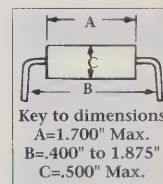
Forms leads quickly and accurately on most components. All models have graduated center space dimensions with 0.050" increments. Radiused edges eliminate scoring of leads. Made of high-impact plastic, 5-1/2" long. Two models to choose from. Part No. 119-667 accepts 1/4W and 1/2W components. Part No. 119-669 accepts 1W and 2W plus 1" and 1-1/4" long components.

Part No.	Size	Center Spacing	Price
119-667	1/4W, 1/2W	.400" to 1.500"	\$2.85
119-669	1W, 2W, 1", 1-1/4"	.800" to 1.900"	\$3.25

Single-Sided Lead-Bending Gauge

Fast, accurate, lead-forming for most components used on printed circuit boards. All models have 40 numbered positions for different center spacing. Made of high-impact plastic, 7-1/2" long.

Part No.	Size	Center Spacing	Price
119-706	1/8W	.260" to 1.420"	\$6.15
119-702	1/4W	.375" to 1.500"	\$6.15
119-703	1/2W	.500" to 1.500"	\$6.15
119-704	1W	.750" to 2.500"	\$7.75
119-705	2W	.875" to 2.500"	\$7.75



Key to dimensions
A=1.700" Max.
B=.400" to 1.875"
C=.500" Max.

Lead Bender

Fast-acting, lightweight hand tool for bending component leads. Caliper-like pointers with vernier control adjust quickly for center spacing on circuit board. Just align pointers (as shown) to desired spacing on circuit board. Place component in notches of tool and simply squeeze handle to form sharp right angles on leads. Protective clamps grip lead wires during forming to prevent any lateral stress on component body - no damage to diodes. Centering device permits positioning component dead-center for "cosmetic" results. Will accept leads from 0.016" to 0.055".

Part No.	Description	Price
119-713	Lead Bender	\$95.10



Caliper Lead Forming Tool

Forms lead bends on all axial lead components, mounted vertical or horizontal. Set screw allows locking of the measurement for repetitive forming, while the non-metallic construction prevents damage to plated thru-holes.

Part No.	Model	Description	Price
119-665	6016-0003	Calipered Lead Forming Tool	\$21.63



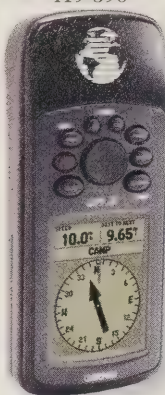
419-390

423-194

423-196

7X-Series GPS

- WAAS enabled
- Waterproof/floats
- Quad-Helix antenna for superior reception



423-194 GPS 72: Designed to provide a low-cost solution for land or marine navigation. This rugged, unsinkable GPS receiver is the perfect entry-level Garmin GPS. PC interface cable not included.

419-390 GPSMAP 76: Built-in basemap shows cities, interstates, coastlines and more. Large number and graphic navigation screens. 8mb internal memory for storing optional MapSource maps (see page 327). Backlit display and keypad. PC interface cable included.

423-196 GPSMAP 76S: Complete with all the functions of the GPSMAP 76, plus a barometric altimeter and electronic compass to deliver precise location, elevation and bearing information. 24mb internal memory for downloading MapSource maps (see page 327). Larger screen, bigger buttons and rugged design makes this unit at home in even the harshest conditions! PC interface cable included.

Part No.	Description	Price
423-194	GPS 72 Receiver	\$185.00
419-390	GPSMAP 76 Receiver	\$330.00
423-196	GPSMAP 76S Receiver	\$410.00
428-500	Cigarette Lighter Adapter	\$23.30
428-700	Optional Carrying Case	\$12.70
428-141	PC Interface Cable	\$38.75

iQue 3600 Palm OS and GPS Receiver

The iQue 3600 combines the Palm OS and GPS in a single, highly integrated handheld device.

With the power of Palm OS® 5 and the dependability of Garmin GPS technology, this "Super PDA" redefines multi-tasking. Integrated software not only allows you to look up appointments or contacts, but also locates and routes you to them with voice-guidance commands! Large color display allows for on-screen navigation.

Features include integrated MP3 player, voice recorder, trip computer, automatic route generation, address book, and calculator. Software applications include Documents To Go, StarCaddy, SplashPhoto and Vindigo. Built-in routable basemap contains state and country boundaries, lakes, rivers, streams, airports, cities, towns, coastlines, state and interstate highways, local thoroughfares and secondary roads within metro areas. Infrared communication capability and vibrating alarm. Includes microphone, speaker and headphone jack.



Part No.	Description	Price
423-198	iQue 3600	\$589.00
423-801	Automotive Navigation Kit	\$80.00
423-802	USB Synch Cable	\$25.00
423-803	12-Volt Power Charging Adapter	\$32.00
423-804	Leather Case	\$25.00

GPS-12XL

12-parallel channel receiver for amazingly fast satellite acquisition and tight satellite lock-even under tree cover. Backlit display. 12 hour battery life. Trip odometer indicates speed, bearing, elevation and time of day. Stores up to 500 waypoints. Requires 4 AA batteries (sold separately). Includes carrying case, wrist strap, user's manual. One year warranty.

Unit has audible alert tones, and is loaded with navigation information including 106 map datums and 7 grid formats, plus advanced orienteering features like user datum/UTM and user grid formats to define your own map parameters. Options include external MCX antenna and adapter for BNC antennas.



Part No.	Description	Price
428-025	GPS-12XL GPS Receiver	\$246.00
428-203	Remote Antenna	\$100.00
428-026	MCX to BNC Antenna Adapter	\$25.50
428-165	Combination PC Interface/ Cigarette Lighter Adapter Cable	\$45.00
473-002	Industrial Alkaline AA	\$0.94

eTrex-Series GPS

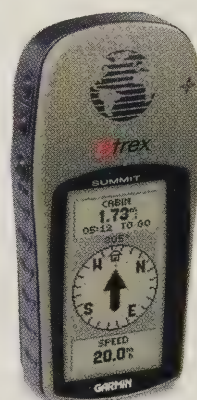
- Small/Lightweight

The eTrex series are among the industry's smallest GPS receivers. Waterproof case. Backlit display. Up to 18 hour battery life. Requires 2 AA batteries (not included). One year warranty.

428-060 eTrex Summit features an electronic compass for accurate heading while standing still. Barometric sensor with automatic pressure trend recording. Elevation computer provides current elevation, ascent/descent rate, min/max and more.

423-197 eTrex Legend is loaded with a full basemap of North and South America into one small unit, containing lakes, rivers, cities, interstates, national and state highways, railroads and coastlines. 8MB of internal memory allows for MapSource map downloads. PC interface cable included.

428-070 eTrex Vista Includes all the features of eTrex Summit and Legend. 24MB of internal memory allows for additional MapSource map downloads. High-resolution display. PC interface cable included.



428-060



423-197



428-070

Part No.	Description	Price
428-060	eTrex Summit GPS Receiver	\$250.00
423-197	eTrex Legend GPS Receiver	\$204.95
428-070	eTrex Vista GPS Receiver	\$309.95
428-051	12VDC Adapter Cable	\$40.00
428-053	Carrying Case	\$15.00
473-002	Industrial Alkaline AA	\$0.94



419-382

419-381

GPS V Deluxe Package

- The first handheld GPS to provide turn-by-turn navigation throughout North America
- WAAS enabled
- Entire USA map is unlocked - No extra DCA's to purchase



The Garmin GPS V handheld navigation system includes access to all USA maps at no extra charge. No DCA's to purchase. Delivers automatic routing, detailed mapping and WAAS capability all in a compact handheld GPS. Look up a location and GPS-V will automatically calculate a route and guide you to your destination with turn-by-turn directions and audible beeps that alert you to upcoming turns. Includes enhanced MapSource™ City Select™ CDROM providing extremely detailed street-level maps of nearly every town in the USA as well as some coverage in Canada. Includes highways, interstates, business and residential streets with attributes such as turn restrictions and speed categories. Easy to upload to built-in memory with included PC interface cable. Includes GPS unit with portable antenna, 12V adapter cable, PC interface cable, lanyard, MapSource City Select CDROM with full coverage and vehicle mount. Requires four AA-alkaline batteries (not included). One year manufacturers warranty.

Part No.	Description	Price
418-912	GPS-V Deluxe Package	\$435.00
473-002	Industrial Alkaline AA	\$0.94

MapSource™ CD ROM Software

- Map transfer function uploads maps to your GPS
- View/Print color maps on your PC



428-550 Metroguide U.S.A. provides highly-detailed street level maps of the continental US and Hawaii. Includes addresses, business listings and other points of interest. Allows street address lookup and navigation.

Rino GPS & FRS/GMRS 2-way Radios

Effective communications and navigation functions in one compact handheld unit. Powerful 12-channel WAAS-enabled GPS receiver in combination with built-in two-way radio can transmit user position with a simple button press, allowing others to navigate their position. Two-way radio functions on both FRS at 1/2-watt power or GMRS with 1-watt power for reliable communication up to 5 miles.



22 total channels and 38 CTCSS privacy codes. High-resolution 160x160 pixel FSTN backlit display. 15-hour battery life. Trip computer with speed tracking, trip time and distance. Clock, stopwatch and alarm functions. Requires three AA alkaline batteries (sold separately). Includes belt clip and lanyard.

419-381 Rino-110 features a graphic plotter screen for mapping of user waypoints and points of interest. 1mb of internal memory.

419-382 Rino-120 adds a built-in basemap of North and South America detailing cities, highways, local and secondary metro roads and more. 8mb of internal memory. May be used with MapSource CD-ROMs. Voice scrambler for privacy and vibration call alert.

Part No.	Description	Price
419-381	Rino-110 GPS/2-Way Radio	\$200.00
419-382	Rino-120 GPS/2-Way Radio	\$279.00
419-383	Optional 12V Cable, Rino-series	\$40.75
419-384	Optional PC Data Cable, Rino-series	\$38.75
419-385	Optional Carry Case, Rino-series	\$12.75
473-002	Industrial Alkaline AA	\$0.94

428-520 US Topo contains topographic maps of the entire 50 states similar to US Geological Survey 1:100,000-scale maps. Shows highways, roads, hiking trails, elevation contours, summits, public facilities, inland waters and navoids. *Map transfer function compatible with most Garmin GPS units with built-in background map. Requires data card and PC interface cable included with some units and optional on others. See individual GPS unit description.

Part No.	Description	Price
428-550	MapSource MetroGuide USA	\$115.00
428-520	MapSource US Topography	\$115.00

Garmin GPS Features

Part No.	Model	WAAS enabled	Standard GPS Antenna	Display Type	Display Size	Electronic Compass	Barometric Altimeter	Basemap	Waypoints	TracBack feature
423-198	iQue 3600	Yes	Quad Helix	256 color	2.1 x 3.2	No	No	Yes	5000	No
423-194	GPS 72	Yes	Quad Helix	4 level Gray	2.2 X 1.6	No	No	No	500	Yes
419-390	GPSMAP 76	Yes	Quad Helix	4 level Gray	2.2 x 1.6	No	No	Yes	1000	Yes
423-196	GPSMAP 76S	Yes	Quad Helix	4 level Gray	2.2 x 1.6	Yes	Yes	Yes	1000	Yes
428-025	GPS 12XL	No	Patch	Black & White	2.2 x 1.5	No	No	No	500	Yes
428-050	eTrex	No	Patch	4 level Gray	2.1 x 1.1	No	No	No	500	Yes
428-070	eTrex Vista	Yes	Patch	4 level Gray	2.1 x 1.1	Yes	Yes	Yes	1000	Yes
428-060	eTrex Summit	No	Patch	4 level Gray	2.1 x 1.1	Yes	Yes	No	500	Yes
423-197	eTrex Legend	Yes	Patch	4 level Gray	2.1 x 1.1	No	No	Yes	1000	Yes
418-912	GPS V	Yes	Quad Helix	4 level Gray	2.2 x 1.5	N/A	N/A	Yes	500	Yes
419-381	Rino-110	Yes	Quad Helix	4 level Gray	1.4 x 1.4	N/A	N/A	Yes	500	Yes
419-382	Rino-120	Yes	Quad Helix	4 level Gray	1.4 x 1.4	N/A	N/A	Yes	500	Yes
423-770	GPSMAP 60C	Yes	Quad Helix	256 Color	2.2 x 1.5	N/A	N/A	Yes	1000	Yes
423-771	GPSMAP 60CS	Yes	Quad Helix	256 Color	2.2 x 1.5	Yes	Yes	Yes	1000	Yes

WAAS: Wide Area Augmentation System; a system of satellites and ground stations that provide GPS signal corrections, giving position accuracy of better than three meters 95 percent of the time.

TracBack: TracBack is a feature which allows you to return along a traveled path or route without marking any waypoints.

Basemap: Garmin mapping units come with permanently built-in basemaps, which typically include coverage of oceans, rivers and lakes; principal cities and towns; interstates and highways; railroads, airports and political boundaries. Basemaps are available in a variety of global coverage areas.



3M™

Service Vacuum Cleaner

Portable, Lightweight and Compact

- Toner safe
- EMI/RFI filtered
- Grounded from wall plug to tip of attachments

Designed specifically for cleaning toner from copying machines and general cleanup tasks. Includes a 10 micron toner/dirt filter holds 5-9 lbs. of toner and provides maximum protection to motor. **Fine Particle Filter** (.3-.5 micron) for laser toner is optional part no.260-113. 1 HP/5 Amp motor features sealed ball bearings lubricated for life. Heavy-duty case holds self storing vacuum, hose, crevice nozzle, tubular nozzle, dusting brush, adapter and cord. Measures 17.5 x 6.25 x 7.5" weighs only 9 lbs. Three year warranty.

Optional **Black Cordura® Case** fits over vacuum and holds it securely with two 1.5" wide nylon straps. Top of bag has 17.5 x 7 x 4" zipper closure compartment for storing accessories. Includes web strap handles and shoulder strap. 17.5 x 7.5 x 9.5" overall.

Part No.	Description	Price
251-497	Vacuum Cleaner, 115VAC	\$259.00
251-555	Vacuum Cleaner, 230VAC	\$299.00
260-001	Replacement Toner/Dirt Filter	\$16.50
260-805	Optional Carrying Strap	\$14.30
260-113	Optional Fine Particle Filter	\$29.50
191-141	Optional Black Cordura Carrying Case	\$76.50



Optional
Cordura Case

115VAC
230VAC

Porta Power Commercial Vacuum

- Vacuum or blower
- Powerful 2.2 peak HP motor

Has all the features and accessories required for general cleaning needs (not for toner). Extra long 35' power cord. Disposable bag adapter kit provides a convenient alternative to emptying the reusable bag. Includes 6' Tufflex hose with suction power control, dusting brush, hard floor brush, crevice tool, upholstery and drapery tool, combination floor and carpet tool, two 20" wands, shoulder strap and two quart reusable cloth bag. 115VAC. One year manufacturer's warranty. Optional **Cordura Carrying Case** will accept vacuum with room for attachments.



Part No.	Description	Price
127-883	Porta Power Vacuum	\$155.00
216-530	Optional Cordura Carrying Case	\$53.00
127-564	Disposable Bag Adapter Kit	\$8.15
127-563	Disposable Bags, 5/pk.	\$5.60

shop-vac®

Hippo® Portable Handheld Vacuum

Dependable power with lightweight portability. Powerful 1.5 peak HP motor provides 80 CFM, 50" sealed pressure. One quart dry capacity. Easily converts into a blower. Dual filter system with disposable filter bag. Includes 1-1/4" diameter 6' hose, extension wand, 6" master nozzle, crevice tool, round brush, conversion unit, 2-1/2" hose coupling and adjustable shoulder strap. One year manufacturer's warranty.



Part No.	Description	Price
191-127	Hippo Vacuum	\$152.00
191-741	Replacement Filter Bags, 5/pkg.	\$14.80

shop-vac®

850-Series Wet/Dry Vacuum

- 6 & 10 gallon capacity
- One year manufacturer's warranty

Powerful 4.0 HP single-stage bypass motor provides 130 CFM airflow. 60" sealed pressure. Double filtration system with primary cloth filter and secondary foam filter for optimum performance. Attachments include: 7' x 1-1/4" diameter hose, extension wands, 12" floor nozzle with brush and squeegee inserts, crevice tool, round brush, Gulper nozzle. 6' x 2-1/2" hose, extension wands and utility nozzle. 115VAC, 10A.



Part No.	Description	Size	Price
191-759	850 Series Wet/Dry Vacuum	6 Gallons	\$175.00
191-767	850 Series Wet/Dry Vacuum	10 gallons	\$205.00

shop-vac®

1X1® Wet/Dry Vac

Powerful 1.0 peak horsepower motor and a 1 gallon tank to handle most any cleanup need, wet or dry. Rust and dent-resistant plastic tank. Automatic shutoff prevents overflow. 4' hose. 18' power cord. Includes gulper nozzle, crevice tool, reusable dry filter and foam filter. Two year warranty.



Part No.	Description	Price
191-755	All Purpose Portable Wet/Dry Vacuum	\$54.60



Cordless or Coded 12V-18V Wet/Dry Vac

Compact and Portable

The DC500 wet/dry vac runs off of 12-18V DeWalt battery packs or 120V AC. High powered enough to pick up drywall dust, sawdust, screws, nails and water. The high efficiency filter traps 99.7% of drywall dust and other particles. This wet/dry filter also eliminates the need to change filters when switching from dry to wet. The filter is washable and can be cleaned with regular tap water. The heavy-duty rubber hose provides durability and flexibility in tough situations. The drain port on the tank makes it easy to empty liquids, while the on-board hose, cord and accessory storage provides convenient transport and storage. Includes: 5' heavy-duty rubber hose, crevice tool and wide nozzle. Battery and charger sold separately.

Part No.	Model	Description	Price
424-501	DC500	Cordless or Coded 12V-18V Wet/Dry Vac	\$175.00
424-502	DC5001	Replacement Filter	\$30.00
424-503	DC5001H	Hepa Replacement Filter	\$40.00
416-968	DW9116	7.2V-18V 1-Hour Battery Charger	\$84.45
836-991	DC9091	14.4V XR Extended Run-Time Battery	\$89.95
422-976	DW9071	12V XR Extended Run-Time Battery	\$87.90
416-967	DC9096	18V XR+ Extended Run-Time Battery	\$140.75



Data-Vac/1 Pro-Series

Rugged, All-Steel Construction

- Not for toner
- Lightweight, easy-to-use
- Includes micro cleaning tool kit

Designed to remove dirt, dust and paper scraps from hard-to-reach places in printers, computer systems and peripheral devices. Micro-cleaning tool kit allows easy cleaning in very tight places. Includes power unit, 19" flexible hose, 4-piece micro tool kit, crevice tool, pin-point air tool, soft bristle dust brush, shoulder strap, 5 reusable/disposable paper bags. 16"L x 3-3/4"D. 115VAC. One year manufacturer's warranty.

Part No.	Description	Price
405-632	Data-Vac/1 Pro-Series Vacuum/Blower	\$76.00
127-758	Replacement Bags, 5/pk.	\$4.75



Data-Vac/2 Pro-Series

- Toner safe
- Includes Micro Cleaning Tool Kit

Professional lightweight, high powered vacuum/blower for maintenance of all office equipment, including copiers and laser printers. Triple filtration system includes a toner filter inside a permanent cloth bag followed by a fiberglass micro filter. Filters particles as small as .3 microns. All-steel construction with black finish to hide toner smudges. 1.17 peak HP motor. CFM power control. Convenient cord storage halo. Includes power unit, 3' flexible hose, two 20" extension wands, "pick-all" nozzle, air concentrator nozzle, crevice tool, soft bristle dusting brush, air pin-pointer, shoulder strap, micro cleaning tool kit, two extra toner filter bags, one extra micro-filter. 115VAC. Two year manufacturer's warranty.

Add the optional foam filled carrying case for greater convenience and protection. Case is made of rugged, lightweight, impact-resistant plastic, has a lift-out attachment tray and rustproof solid brass hardware.

Part No.	Description	Price
302-801	Data-Vac/2 Pro-Series Vacuum/Blower	\$166.00
302-014	Carrying Case for Data-Vacs 2 & 3	\$58.85
127-921	Replacement Filters, 5/pk.	\$35.05

FIELD ACCESSORIES



Data-Vac/3 Pro-Series

- Toner Safe
- Nearly twice the power of Data-Vac/2 Pro
- Includes Micro Cleaning Tool Kit

Has all the features and attachments of the popular Data-Vac/2, but with more powerful 1.7 peak HP, two-speed motor providing greater suction and flow. Additional features result in no appreciable weight increase over the Data-Vac/2. Compact power unit measures 17" x 7". Two year manufacturer's warranty.

Add the optional foam filled carrying case for greater convenience and protection. Case is made of rugged, lightweight, impact-resistant plastic, has a lift-out attachment tray and rustproof solid brass hardware.

Part No.	Description	Voltage	Price
302-013	Data-Vac/3 Pro-Series Vacuum/Blower	115VAC	\$199.95
302-023	Data-Vac/3 Pro-Series Vacuum/Blower	230VAC	\$230.00
302-014	Carrying Case for Data-Vacs 2 & 3	—	\$58.85
127-921	Replacement Filters, 5/pk.	—	\$35.05



Data-Vac/3 ESD Vacuum

The Anti-Static Computer/Electronic Cleaning System

- ESD Safe
- HEPA certified filter
- 2-speed, 1.7 HP motor

The new Data-Vac/3 ESD with HEPA filter is 99.97% effective in trapping particles of dust down to 0.3 microns. Comes with a complete set of Polyvinyl static dissipative tools including: 6 foot expandable stretch hose, crevice tool and dust brush. Comes complete with: 12 foot grounded power supply cord, wrist strap and ground cord set, 5 extra triple layer 0.3 micron disposable bags, heavy duty foam-filled carry case and shoulder strap.

Part No.	Description	Voltage	Price
425-152	Data-Vac/3 Pro-Series ESD Vacuum/Blower	120VAC	\$360.00



Omega Field Service Vacuum

Designed for Commercial Use

- Lightweight
- Quiet flow-through motor
- ESD-Safe (grounded from nozzle to plug)
- Attachments store inside of top cover
- Optional 0.12 micron HEPA filter available

Designed to work in and around printers, fax machines, telecom equipment, computers and production & assembly equipment. Standard filter (0.3 Micron) safely traps soot, pollens, drywall dust, black toner and most color toner. Optional 0.12 micron HEPA filter (Part No. 417-783) traps fumes, atmospheric dust and all color toner. Comes complete with standard 0.3 micron filter, 6' flexible rubber hose (toner proof and ESD-Safe), 16" flexible goose neck, crevice tool, crevice tool brush and 110VAC detachable power cord. Attachments store inside top cover insert. Weighs 12.5 lbs. with attachments.

Part No.	Model	Description	Price
420-495	35849	Omega Field Service Vacuum	\$239.00
417-782	35853	Replacement 0.3 Micron Filter	\$24.50
417-783	35854	Optional 0.12 Micron HEPA Filter	\$42.80
423-960	35864	Optional Shoulder Strap	\$11.30
424-419	35861	Optional 10' Flexible Rubber Hose	\$51.70



MOTOROLA

Professional Two-Way Radios

■ Easy-to use high-performance business-band radios

All models include interference eliminator codes to eliminate channel chatter at the touch of a button, rechargeable battery pack, 10-hour charging adapter, antenna, belt clip, operator's manual and FCC licensing information. Rugged construction meets MIL-STD-810. One-year manufacturer's warranty.

418-815, 418-816 XTN-series UHF: 2-watt output. Single channel is user programmable with a choice of 56 frequencies and 121 interference eliminator codes. Selectible scramble mode provides greater privacy. Battery gauge. Three call tones. Use with included NIMH rechargeable battery pack or 4-AA alkaline batteries. Includes swivel belt holster. Range up to 6 miles outdoors in open terrain and in buildings up to 250,000 square feet and 1-20 floors.

423-791 AX-series High-Power UHF: 4-watt output. Operates on 10 pre-programmed frequency/interference eliminator channels. Hi-low power switch to conserve battery during short-range communication. Range up to 6 miles outdoors in open terrain and in buildings up to 300,000 square feet and 1-25 floors. Weight is only 11.5 ounces with battery.

New

Part No.	Description	Price
418-815	2-Way Radio (XTN-series, Black)	\$325.40
418-816	2-Way Radio (XTN-series, Yellow)	\$325.00
423-791	2-Way Radio (AX-series)	\$359.00
418-817	Optional 2-Hour Drop-in Charger for 418-815, 816	\$71.40
418-818	Replacement Battery Pack for 418-815, 816	\$36.70
423-792	Replacement Battery Pack for 423-791	\$45.00

KENWOOD®

FreeTalk® XL Two-Way Radio

Up to 5-mile Range Outdoors

■ 15 Pre-programmed channels, 2-watts of power

High performance UHF radio features extra-rugged construction. Operates on GMRS channels 1-15, and FRS channels 1-7. 38 CTCSS codes block unwanted interference from other talk groups. Battery-saver. Low battery alert. Range up to 5 miles outdoors in open terrain and in buildings up to 250,000 square feet and 1-20 floors. Includes one battery pack, auto-charger, belt clip, user's manual and easy licensing information. 2-1/4 x 4", 11 oz. Two year manufacturer's warranty.

Not available for sale outside of USA.

Part No.	Description	Price
75-005	FreeTalk XL Two-way Radio	\$280.50

EASY
LICENSING!



KENWOOD®

FreeTalk® Two-Way Radio

Up to 2-mile Range

Compact (4 x 2.2") FRS radios provide UHF performance for reliable short-range communication. 1/2-watt power allows range of up to two miles. 14 channels and 38 CTCSS talk groups. CORDS system automatically checks if others in your talk group are out of range. PrivacyTalk™ scrambles conversations to avoid eavesdropping. Auto channel select searches and locks on to a vacant channel. Four call tones. Auto "power-off" saves battery life. Fold-down antenna. Belt hook. 40 hour battery life. Requires three AA batteries sold separately. Or order optional, rechargeable NiCd battery pack and charger. One year manufacturer's warranty.

Not available for sale outside of USA.

NO LICENSE
REQUIRED!



Part No.	Description	Color	Price
75-010	FreeTalk Two-Way Radio	Black	\$89.00
75-020	FreeTalk Two-Way Radio	Yellow	\$89.00
75-006	Optional NiCd Battery Pack*	—	\$24.50
75-007	Optional NiCd Charger**	—	\$29.95
75-008	Optional Nylon Case with D-ring	—	\$15.30
75-009	Optional Speaker/mic with Volume Control	—	\$40.80
75-003	Optional Voice-Activated (VOX) Headset/Mic	—	\$65.30
75-011	Optional Clip Mic/Earphone	—	\$30.55
473-002	Industrial Alkaline AA	—	\$0.94

* Requires 75-007 battery charger

** For use with 75-006 NiCd battery pack only. Not for use with alkaline batteries.



2-Way Radio Holster

Simple, compact and extremely durable. Constructed of 3mm neoprene and 1200-denier polyester that molds to protect radios. Wear it vertically using stainless-steel clip or horizontally using elastic belt carriers. 3-1/4 x 5-3/4 x 1-1/4".

Part No.	Description	Price
419-622	2-Way Radio Holster, black	\$12.20

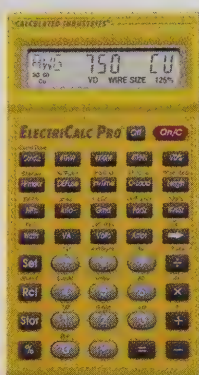




Industrial Calculator

ElectriCalc® Pro: For electrical design, estimating and installation jobs. Conforms to NEC 1996 and 1999 standards. Factory updatable for future code year revisions. Works directly in volts, amps, volt-amps, watts, kVA, kW, PF%, EFF% and DC resistance. Calculates copper and aluminum wire sizes. Calculates voltage drop. One button parallel and derated wire sizing. Conduit sizing by NEC definitions. Calculates motor load current and fuse/breaker calculations. Sizes overload protection. Finds NEMA starter sizes. Calculates grounding conductor sizes. Standard mathematical functions. Includes comprehensive user's manual, protective case and batteries.

Part No.	Description	Price
204-001	ElectriCalc Calculator	\$101.95



Binoculars

High-quality, lightweight optics are constructed with slip-proof, shock-proof rubber armoring to perform in rugged field environments. Ruby coated lenses improve image contrast. Collapsible rubber eyecups for viewing even with eyeglasses. Separate diopter adjustment. Center focusing. Includes lens caps, neck strap and carry pouch with belt-loop. Limited lifetime manufacturer's warranty.



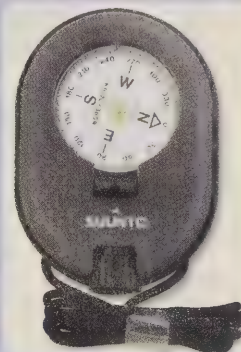
Part No.	Description	Field of View	Weight	Price
252-001	Full Size 10x50	367°/1K yds.	30 oz.	\$100.00

SUUNTO

Vista™ Hand Bearing Compass

Constructed of weatherproof ABS plastic. Floats. Accuracy to 1/2° with marks at 1° intervals. 0-360 standard and reverse scales. Adjustable optics. V-sight. 2.2 x 3 x 0.6", 2.5 oz.

Part No.	Description	Price
210-200	Vista Hand Bearing Compass	\$63.95



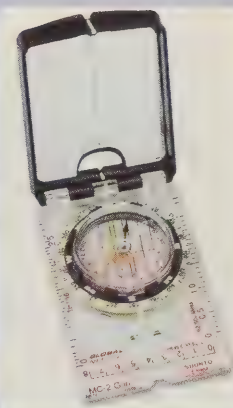
SUUNTO

Field Compass

■ Ultimate accuracy and quality construction

Global Navigator Compass: professional mirror compass for taking bearings and normal directions with adjustable declination correction scale and built-in clinometer. Additional sighting hole for superior accuracy. Extra large luminous markings. Includes detachable lanyard with snap-lock. Lifetime limited warranty.

Part No.	Description	Price
210-003	Global Navigation Compass	\$59.95



Locks

Combination Locks have solid brass body, resettable combinations, and are great for use on shipping containers.

Medium/Heavy-Duty Key Locks have hardened steel shackle, good pick resistance, and are great for tool/storage boxes.

Medium-Duty Weather Tough Key Locks have a thermoplastic shell that withstands temperature extremes.

Part No.	Description	Shackle	Price
40-647	Combination Lock	7/8"	\$6.05
40-175	Combination Lock	1"	\$19.35
40-176	Combination Lock	2 - 1/4"	\$20.50
40-003	Medium-Duty Lock (not shown)	3/4"	\$8.30
40-005	Heavy-Duty Lock	1"	\$11.65
40-315	Weather Tough Lock	1-1/8"	\$10.75



Master Locks

Powerful laminated steel case. Hard steel shackle. Cadmium rust-proofing. Every lock comes with two keys.

Locks Keyed Differently

Available from stock.

Part No.	Model	A	B	C	Price
116-627	10	1"	5/32"	7/16"	\$2.60
116-657	7	1-1/8"	3/16"	9/16"	\$7.20
116-641	3	1-1/2"	9/32"	3/4"	\$8.40
116-626	1	1-3/4"	5/16"	15/16"	\$9.60

Locks Keyed Differently with Master Key

Order master key(s) separately. Allow two weeks for delivery.

Part No.	Model	Price
130-760	7	\$10.80
130-758	3	\$12.50
130-756	1	\$13.80
130-761	Master Key	\$3.95

Master Lock.



New



TSA Accepted Luggage Lock

TSA Approved-Ideal for Air Travel

- Set-your-own combination convenience
- Sturdy metal construction
- Lifetime guarantee

Unique Travel Sentry logo on lock indicates to TSA screeners that they can use a secure set of codes to unlock, inspect and relock baggage, without cutting the lock.

Part No.	Description	Price
425-137	Combination Lock	\$10.30



Application Guide

BRADY® Dot Matrix Printable Labels

Use	Applications and Properties		Type of Material	Color	Temp. Range °F	Material
Wire and Cable Marking	Durable highly conformable wire markers with self-laminating legend protection. Ideal for discrete wire, multiconductor and ribbon cable applications. Heat and oil resistant. Abrasion and smudge resistant. Self extinguishing.		Vinyl	White with clear overlamine	-40 to +150	292
	Label that can be repositioned due to a specially formulated rubber-based adhesive. Resistant to humidity, oil and water.		Vinyl/Cloth	White	-40 to +180	502
Circuit Board, Component and Identification	Top Side PCB	Provides an excellent solution for component and board identification and bar codes. Labels can be applied before the soldering process. Solvent resistant. High temperature performance. UL/CSA listed.	Polyester	White	-40 to +311	619
		Provides an excellent solution for component and board identification. Good computer-printability; self extinguishing. Meets MIL-M-87958.	Tedlar	White	-40 to +266	637
		Label that can be repositioned due to a specially formulated rubber-based adhesive. Resistant to humidity, oil and water. Good EPROM label.	Vinyl/Cloth	White	-40 to +180	502
Bar code Labeling	Label is conformable and resists oils, weathering, abrasion and solvents. Special topcoat assures long time legibility for scanning with visible light and laser bar code readers.		Polyester	White	-40 to +311	619

Dot Matrix Printable Datab™ Labels

Comes with pin-feed liners and can be used in dot matrix printers having tractor or friction feed mechanisms. For best printing results use Brady ribbons.

Material 502

Part No.	Model	Size Inches	Quantity	Price
408-861	DAT-119-502-10	0.375 x 0.375	10,000	\$158.10
408-844	DAT-43-502-10	0.500 x 0.437	10,000	\$158.10
408-853	DAT-67-502-10	0.500 x 0.750	10,000	\$260.90
408-866	DAT-143-502-10	0.500 x 0.937	10,000	\$278.75
124-768	DAT-15-502-10	0.650 x 0.200	10,000	\$159.30
124-744	DAT-5-502-10	0.800 x 1.437	10,000	\$632.50
124-757	DAT-11-502-10	1.000 x 0.375	10,000	\$336.20
124-773	DAT-18-502-10	1.000 x 0.500	10,000	\$373.95
408-875	DAT-160-502-10	1.125 x 0.530	10,000	\$445.85
124-780	DAT-29-502-10	1.500 x 0.250	10,000	\$386.60

Material 619

Part No.	Model	Size Inches	Quantity	Price
124-761	DAT-118-619-10	0.375 x 0.375	10,000	\$142.20
124-797	DAT-45-619-10	0.500 x 0.437	10,000	\$142.20
124-771	DAT-17-619-10	0.650 x 0.200	10,000	\$137.40
124-778	DAT-27-619-10	0.750 x 0.250	10,000	\$160.05
124-803	DAT-51-619-10	1.000 x 0.375	10,000	\$322.65
124-776	DAT-20-619-10	1.000 x 0.500	10,000	\$192.35
124-676	BCDAT-9-619-5	2.000 x 0.250	5,000	\$121.20
124-638	BCDAT-1-619-5	2.000 x 0.900	5,000	\$349.35
124-656	BCDAT-3-619-5	2.000 x 1.437	5,000	\$518.75
124-645	BCDAT-11-619-10	3.000 x 0.375	10,000	\$527.35
124-652	BCDAT-2-619-5	3.000 x 0.900	5,000	\$518.75

Material 292

Part No.	Model	Size Inches	Quantity	Price
408-863	DAT-142-292-1	0.300 x 0.937	1,000	\$26.10
408-864	DAT-142-292-10	0.300 x 0.937	10,000	\$185.45
408-850	DAT-66-292-1	0.500 x 0.750	1,000	\$36.60
408-867	DAT-145-292-1	0.500 x 0.937	1,000	\$35.70
401-697	DAT-145-292-10	0.500 x 0.937	10,000	\$254.90
124-739	DAT-33-292-1	0.500 x 1.437	1,000	\$30.60
408-870	DAT-148-292-1	0.800 x 0.937	1,000	\$41.00
408-871	DAT-148-292-10	0.800 x 0.937	10,000	\$293.55
124-745	DAT-7-292-1	0.800 x 1.437	1,000	\$65.70
408-859	DAT-85-292-1	1.000 x 0.750	1,000	\$57.65
401-698	DAT-85-292-10	1.000 x 0.750	10,000	\$410.75
408-854	DAT-69-292-1	1.000 x 5.937	1,000	\$293.15
408-855	DAT-70-292-1	1.000 x 7.437	1,000	\$336.60
124-740	DAT-34-292-1	1.000 x 1.437	1,000	\$68.85
124-785	DAT-34-292-10	1.000 x 1.437	10,000	\$486.85
124-747	DAT-8-292-1	1.900 x 3.187	1,000	\$224.00
124-748	DAT-8-292-2.5	1.900 x 3.187	2,500	\$460.65
124-741	DAT-38-292-1	2.000 x 2.250	1,000	\$218.50
124-790	DAT-38-292-2.5	2.000 x 2.250	2,500	\$450.95
408-858	DAT-75-292-1	2.000 x 5.937	1,000	\$367.60
408-873	DAT-159-292-1	2.000 x 8.437	1,000	\$487.55

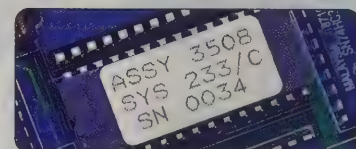
Material 637

Part No.	Model	Size Inches	Quantity	Price
408-848	DAT-56-637-10	0.650 x 0.200	10,000	\$108.10
124-733	DAT-1-637-10	0.900 x 0.250	10,000	\$193.90
124-805	DAT-57-637-10	1.000 x 0.500	10,000	\$384.45
408-857	DAT-73-637-10	1.250 x 0.375	10,000	\$390.85

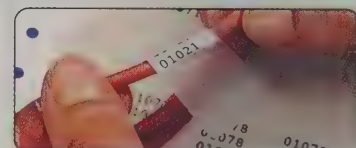
Dot Matrix Printer Ribbons

Impregnated fabric with high-performance indelible ink. Dries quickly and won't smear, bleed, fade or run when exposed to UV light, weathering or solvents.

Part No.	Model	Fits Printer	Price
407-292	R2052	Epson LQ Series, Action 3000, 4000, 5000	\$64.95
124-916	R2072	Bradywriter II, III, Okidata 292, Siemens 9011	\$87.40
407-293	R2080	IBM 2080, 2081, 2390, 2391, PS-PTR-II, SLV-DAT-PTR	\$39.60



Component Identification
Material 619



Wire and Cable Marking
Material 292



PRODUCT IDENTIFICATION

Application Guide

BRADY® Thermal Transfer Printable Labels

Use	Applications and Properties		Type of Material	Color	Temp. Range °F	Material
Wire and Cable Marking	Label with self-laminating legend protection. Ideal for discrete wire, multiconductor and ribbon cable applications. Abrasion, smudge and solvent resistance. Self extinguishing.		Vinyl	White with clear overlaminate	-40 to +158	427
Circuit Board and Component Identification	Bottom Side PCB	High temperature label withstands direct exposure to wave soldering, mixed SMT assembly and reflow processes. Permanent-acrylic based adhesive to withstand extreme temperatures (up to 700°F for 5 minutes).	Polyimide	Amber	-40 to +260	426
		Static dissipative. High temperature label withstands direct exposure to wave soldering, mixed SMT assembly & reflow processes. Permanent-acrylic based adhesive to withstand extreme temperatures (up to 700°F for 5 minutes).	Polyimide	White	-40 to +260	457
	Top Side PCB	Permanent adhesive. Provides an excellent solution for component, barcoding and board identification. Excellent solvent resistance. UL/CSA recognized.	Polyester	White	-40 to +248	423
Rating Plate Applications	For rating or serial plates, product information, warranty and inventory control labels. Tamper resistant label destroys itself upon removal. UL/CSA listed.		Metallized Polyester	Silver	-40 to +176	428

Thermal Transfer Printable Labels

Material 477



Part No.	Model	Size Inches	Quantity	Price
408-895	THT-46-477-10	0.750 x 0.250	10,000	\$418.30
408-893	THT-43-477-10	1.250 x 0.250	10,000	\$709.90
408-894	THT-45-477-10	1.500 x 0.250	10,000	\$758.80
408-896	THT-48-477-10	2.000 x 0.250	10,000	\$1,085.00

Material 423

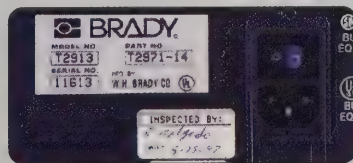
Part No.	Model	Size Inches	Quantity	Price
124-946	THT-11-423-10	0.250 x 0.250	10,000	\$24.05
124-948	THT-12-423-10	0.500 x 0.437	10,000	\$63.75
408-205	THT-14-423-10	0.650 x 0.200	10,000	\$48.25
124-942	THT-1-423-10	0.750 x 0.250	10,000	\$48.25
124-955	THT-2-423-10	0.900 x 0.250	10,000	\$65.20
124-957	THT-3-423-10	1.000 x 0.375	10,000	\$72.95
124-962	THT-5-423-10	1.000 x 0.500	10,000	\$104.25
408-884	THT-13-423-10	1.250 x 0.250	10,000	\$72.95
124-960	THT-4-423-10	1.500 x 0.250	10,000	\$76.90
124-965	THT-6-423-10	1.500 x 0.750	10,000	\$190.75
124-952	THT-15-423-2.5	2.000 x 0.250	2,500	\$35.20
124-966	THT-7-423-3	2.750 x 1.250	3,000	\$165.75

Material 428

Part No.	Model	Size Inches	Quantity	Price
408-881	THT-6-428-10	1.500 x 0.750	10,000	\$458.40
408-889	THT-17-428-3	2.000 x 1.000	3,000	\$163.30
408-882	THT-7-428-3	2.750 x 1.250	3,000	\$276.95
408-890	THT-19-428-1	3.000 x 2.000	1,000	\$162.50
408-897	THT-55-428-1	4.000 x 2.000	1,000	\$176.05



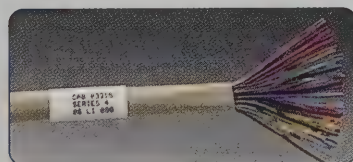
Tamper Resistant Material 351



Rating Plates Material 428



Bottom Side PCB Material 426



Wire & Cable Marking Material 427

Material 427

Part No.	Model	Size Inches	Quantity	Price
124-967	THT-8-427-10	0.500 x 1.437	10,000	\$207.15
124-968	THT-9-427-10	1.000 x 1.437	10,000	\$392.60
408-898	THT-75-427-3	1.000 x 2.250	3,000	\$197.70
124-945	THT-10-427-3	1.000 x 3.750	3,000	\$337.70
408-891	THT-27-427-1	2.000 x 3.750	1,000	\$234.40

Material 426

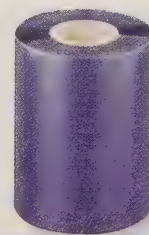
Part No.	Model	Size Inches	Quantity	Price
124-947	THT-11-426-10	0.500 x 0.437	10,000	\$334.55
124-949	THT-12-426-10	0.500 x 0.437	10,000	\$549.35
408-886	THT-14-426-10	0.625 x 0.200	10,000	\$299.70
124-943	THT-1-426-10	0.750 x 0.250	10,000	\$418.30
124-956	THT-2-426-10	0.900 x 0.250	10,000	\$441.55
124-958	THT-3-426-10	1.000 x 0.375	10,000	\$712.15
408-880	THT-5-426-10	1.000 x 0.500	10,000	\$949.20
408-892	THT-29-426-10	1.250 x 0.375	10,000	\$712.15
124-961	THT-4-426-10	1.500 x 0.250	10,000	\$758.80
124-953	THT-15-426-2.5	2.000 x 0.250	2,500	\$290.00

Material 457

Part No.	Model	Size Inches	Quantity	Price
405-446	THT-1-457-10	0.750 x 0.250	10,000	\$418.30
405-447	THT-12-457-10	0.500 x 0.437	10,000	\$549.35
405-448	THT-38-457-10	0.375 x 0.375	10,000	\$278.15
405-449	THT-42-457-10	1.000 x 0.187	10,000	\$465.30
405-450	THT-43-457-10	1.250 x 0.250	10,000	\$709.90
405-451	THT-45-457-10	1.500 x 0.250	10,000	\$758.80
405-452	THT-46-457-10	0.750 x 0.250	10,000	\$418.30
405-453	THT-49-457-10	0.900 x 0.250	10,000	\$441.65
405-454	THT-70-457-20	0.250 x 0.250	20,000	\$689.10

Thermal Transfer Printer Ribbons

The bond between the label and the ribbon is critical to the success of the thermal transfer process. Ribbons are chosen by the type of material being used. All ribbons are black and measure 3.270" wide x 328 yards.



Part No.	Model	Material	Price
405-476	R6002	423, 433, 457	\$104.90
124-919	R4002	425	\$122.30
124-922	R4300	426, 427, 429	\$113.95
124-923	R4802	421	\$114.15



Application Guide



Laser Printable Labels

Use	Applications and Properties		Type of Material	Color	Temp Range °F	Material
Wire & Cable Marking	Label with self-laminating legend protection. Ideal for discrete wire, multiconductor and ribbon cable applications. Abrasion, smudge and solvent resistance. Self extinguishing.		Polyester	White with clear overlaminate	-40 to +221	361
Circuit Board and Component Identification	Bottom Side PCB	High temperature label withstands direct exposure to wave soldering, mixed SMT assembly and reflow processes. Permanent-acrylic based adhesive withstands extreme temperatures (up to 700°F for 5 minutes).	Polymide	Amber	-40 to +572	652
	Top Side PCB	Permanent adhesive. Provides an excellent solution for component, bar-coding an board identification. Excellent solvent resistance. UL/CSA recognized.	Polyester	White	-40 to +267	747
Rating Plate Applications	For rating or serial plates, product information, warranty and inventory control labels. Permanent adhesive. UL recognized. CSA approved.		Metallized Polyester	Silver	-40 to +176	773

Laser Printable Labels

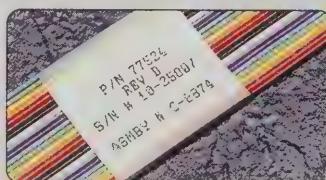
The high resolution of laser printing makes it possible to generate dense, readable labels small enough to fit into limited space applications.

Material 361

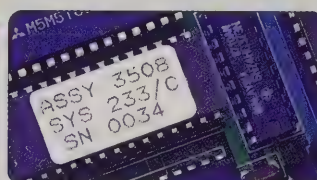
Part No.	Model	Size Inches	Quantity	Price
124-854	LAT-15-361-5	0.500 x 0.750	5,000	\$127.50
405-571	LAT-22-361-5	0.500 x 1.500	5,000	\$191.35
405-568	LAT-16-361-5	1.000 x 0.750	5,000	\$208.90
405-569	LAT-17-361-2.5	1.000 x 1.000	2,500	\$160.65
124-865	LAT-18-361-2.5	1.000 x 1.330	2,500	\$191.35
124-855	LAT-19-361-1	1.000 x 3.167	1,000	\$154.00
405-573	LAT-35-361-2.5	1.200 x 1.500	2,500	\$211.55
405-572	LAT-27-361-1	1.875 x 3.167	1,000	\$342.20



Wire & Cable Marking
Material 361



Ribbon Cable Marking
Material 361



Component Identification
Material 747

Material 652

Part No.	Model	Size Inches	Quantity	Price
405-586	LAT-26-652-10	0.250 x 0.250	10,000	\$392.20
405-574	LAT-1-652-10	0.300 x 0.250	10,000	\$392.20
405-575	LAT-2-652-10	0.375 x 0.375	10,000	\$538.15
405-585	LAT-25-652-10	0.500 x 0.437	10,000	\$714.00
405-587	LAT-29-652-10	0.650 x 0.200	10,000	\$433.20
405-576	LAT-3-652-10	0.650 x 0.250	10,000	\$433.20
124-857	LAT-4-652-10	0.800 x 0.250	10,000	\$550.50
405-577	LAT-5-652-10	0.800 x 0.500	10,000	\$1,395.00
405-578	LAT-6-652-10	1.000 x 0.250	10,000	\$580.40
405-579	LAT-7-652-10	1.000 x 0.500	10,000	\$1,425.00
405-580	LAT-8-652-10	1.000 x 0.375	10,000	\$936.55
405-581	LAT-9-652-10	1.500 x 0.250	10,000	\$1,075.00
405-582	LAT-10-652-10	1.875 x 0.250	10,000	\$1,385.00
405-584	LAT-12-652-2.5	3.000 x 0.375	2,500	\$870.65

Material 747

Part No.	Model	Size Inches	Quantity	Price
405-599	LAT-26-747-10	0.250 x 0.250	10,000	\$130.35
405-588	LAT-1-747-10	0.300 x 0.250	10,000	\$130.35
405-589	LAT-2-747-10	0.375 x 0.375	10,000	\$121.30
405-598	LAT-25-747-10	0.500 x 0.437	10,000	\$124.15
405-600	LAT-29-747W-10	0.650 x 0.200	10,000	\$131.80
124-856	LAT-3-747-10	0.650 x 0.250	10,000	\$134.45
124-858	LAT-4-747-10	0.800 x 0.250	10,000	\$158.50
405-590	LAT-5-747-10	0.800 x 0.500	10,000	\$263.35
124-859	LAT-6-747-10	1.000 x 0.250	10,000	\$166.95
400-394	LAT-7-747-10	1.000 x 0.500	10,000	\$265.00
405-592	LAT-8-747-10	1.000 x 0.375	10,000	\$219.70
405-596	LAT-23-747-2.5	1.000 x 0.500	2,500	\$290.60
124-861	LAT-9-747-10	1.500 x 0.250	10,000	\$183.10
405-597	LAT-24-747-1	1.750 x 1.000	1,000	\$222.85
405-593	LAT-10-747-10	1.875 x 0.250	10,000	\$213.50
124-853	LAT-11-747-5	1.875 x 0.375	5,000	\$185.95
124-864	LAT-13-747-2.5	1.875 x 0.833	2,500	\$163.00
405-594	LAT-14-747-1.5	1.875 x 1.330	1,500	\$177.40
405-601	LAT-31-747W-1	2.000 x 0.900	1,000	\$70.50
405-603	LAT-33-747W-1	2.000 x 1.437	1,000	\$111.90
405-595	LAT-21-747W-1	2.500 x 1.000	1,000	\$89.50
124-863	LAT-12-747W-2.5	3.000 x 0.375	2,500	\$138.50
405-602	LAT-32-747W-1	3.000 x 0.900	1,000	\$105.40
405-604	LAT-34-747W-1	3.000 x 1.437	1,000	\$167.80

Material 773

Part No.	Model	Size Inches	Quantity	Price
405-605	LAT-7-773-10	1.000 x 0.500	10,000	\$368.20
405-606	LAT-20-773-2.5	1.500 x 0.750	2,500	\$222.25
405-610	LAT-36-773-1	1.600 x 0.375	1,000	\$44.05
402-895	LAT-21-773-1	2.500 x 1.000	1,000	\$198.40

Material 773

Self-Laminating

Part No.	Model	Size Inches	Quantity	Price
405-608	LAT-23-773-2.5	1.000 x 0.500	2,500	\$359.05
405-609	LAT-24-773-1	1.750 x 1.000	1,000	\$283.35



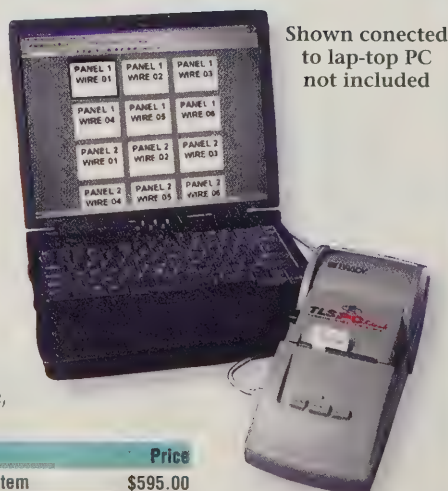
TLS PC Link Thermal Labeling System

*Rugged, Small and Lightweight
Desktop/Portable Solution*

- Prints 203 dpi
- Connects to PC with included software
- Uses TLS2200 printer materials and ribbons

Includes: printer, labelmark labeling software, rechargeable battery pack, power supply/battery charger, R6210 ribbon, sample labels (PTL-19-423), quick start guide, manuals, communications cable and windows drivers.

Part No.	Model	Description	Price
425-253	TLSPC	Thermal Labeling System	\$595.00



Shown connected
to lap-top PC
not included



PRODUCT IDENTIFICATION

Application Guide

BRADY® TLS2200 Thermal Transfer Labels

Use	Applications and Properties		Type of Material	Color	Temp Range °F	Material
Wire and Cable Marking		Durable highly conformable wire markers with self-laminating legend protection. Ideal for discrete wire, multiconductor and ribbon cable applications. Heat and oil resistant. Abrasion and smudge resistant. Self extinguishing.	Vinyl	White with clear overlaminate	-40 to +150	427
		Permasleve™ heatshrink wire marking sleeves, 3 to 1 shrink ratio. For identification and insulation.	Polyolefin	White or Yellow	-67 to +275	342
Circuit Board and Component Identification	Bottom Side PCB	High temperature label withstands direct exposure to wave soldering, mixed SMT assembly and reflow processes. Permanent acrylic based adhesive to withstand extreme temperatures (up to 700°F for 5 minutes).	Polymide	White/Gloss	-40 to +260	457
	Top Side PCB	Permanent adhesive. Provides an excellent solution for component, barcoding and board identification. Excellent solvent resistance. UL/CSA recognized.	Polyester	White/Gloss	-40 to +248	423
		Static Dissipative. Permanent adhesive. Provides an excellent solution for component, barcoding and board identification. Excellent solvent resistance. UL recognized.	Polyester	White/Gloss	-40 to +248	473

Material 427

■ Use ribbon part no. 409-778

Part No.	Model	Size Inches	Quantity	Price
409-851	PTL-10-427	0.25 x 0.75	750	\$27.25
409-890	PTL-28-427	0.25 x 1.50	750	\$34.70
409-788	PTL-11-427	0.50 x 0.75	500	\$28.95
409-789	PTL-17-427	0.50 x 1.00	500	\$31.00
409-793	PTL-29-427	0.50 x 1.50	500	\$37.95
409-790	PTL-18-427	0.75 x 1.00	250	\$25.30
409-899	PTL-30-427	0.75 x 1.50	250	\$28.25
409-791	PTL-19-427	1.00 x 1.00	250	\$27.85
409-794	PTL-31-427	1.00 x 1.50	250	\$35.70
409-792	PTL-21-427	1.00 x 2.50	100	\$21.30
409-878	PTL-23-427	1.00 x 4.00	100	\$25.40
409-795	PTL-33-427	1.50 x 4.00	100	\$34.35
409-796	PTL-34-427	1.50 x 6.00	50	\$28.45

Use exclusively with Brady TLS2200 & TLSPC Printers

Material 342

■ Use ribbon part no. 409-778

Part No.	Model	Size Inches	Color	Quantity	Price
409-905	PSPT-125-1W	1.015 x 0.235	White	100	\$37.00
409-906	PSPT-125-1Y	1.015 x 0.235	Yellow	100	\$37.00
409-907	PSPT-187-1W	1.015 x 0.335	White	100	\$41.20
409-908	PSPT-187-1Y	1.015 x 0.335	Yellow	100	\$41.20
409-907	PSPT-250-1W	1.015 x 0.439	White	100	\$49.90
409-909	PSPT-250-1Y	1.015 x 0.439	Yellow	100	\$49.90
409-798	PSPT-375-1W	1.015 x 0.645	White	100	\$75.00
409-910	PSPT-375-1Y	1.015 x 0.645	Yellow	100	\$73.50
409-911	PSPT-500-1W	1.015 x 0.851	White	100	\$95.20
409-912	PSPT-500-1Y	1.015 x 0.851	Yellow	100	\$95.20

Use exclusively with Brady TLS2200 & TLSPC Printers

Material 473

■ Use ribbon part no. 409-779

Part No.	Model	Size Inches	Quantity	Price
409-819	PTL-1-473	0.25 x 0.25	750	\$26.50
409-838	PTL-6-473	0.50 x 0.275	750	\$40.00
409-846	PTL-9-473	0.65 x 0.20	750	\$41.50
409-853	PTL-10-473	0.75 x 0.25	750	\$42.75
409-868	PTL-16-473	1.00 x 0.375	500	\$41.00
409-879	PTL-28-473	1.50 x 0.25	750	\$59.55

Use exclusively with Brady TLS2200 & TLSPC Printers

Material 457

■ Use ribbon part no. 409-779

Part No.	Model	Size Inches	Quantity	Price
409-818	PTL-1-457	0.25 x 0.25	750	\$62.10
409-827	PTL-3-457	0.375 x 0.375	500	\$77.20
409-831	PTL-4-457	0.40 x 0.40	500	\$75.70
409-837	PTL-6-457	0.50 x 0.275	750	\$99.75
409-845	PTL-9-457	0.65 x 0.20	750	\$113.40
409-852	PTL-10-457	0.75 x 0.25	750	\$117.00
409-857	PTL-13-457	0.90 x 0.25	750	\$113.40
409-859	PTL-14-457	1.00 x 0.187	750	\$117.00
409-867	PTL-16-457	1.00 x 0.375	500	\$126.90
409-862	PTL-15-423	1.00 x 0.275	750	\$39.80
409-885	PTL-27-457	1.50 x 0.125	750	\$145.65
409-891	PTL-28-457	1.50 x 0.25	750	\$149.00
409-823	PTL-2-457	2.00 x 0.25	100	\$33.15

Use exclusively with Brady TLS2200 & TLSPC Printers

Material 423

■ Use ribbon part no. 409-779

Part No.	Model	Size Inches	Quantity	Price
409-817	PTL-1-423	0.25 x 0.25	750	\$21.10
409-825	PTL-3-423	0.375 x 0.375	500	\$22.05
409-829	PTL-4-423	0.40 x 0.40	500	\$23.05
409-833	PTL-5-423	0.50 x 0.20	750	\$29.90
409-835	PTL-6-423	0.50 x 0.275	750	\$31.40
409-840	PTL-7-423	0.50 x 0.50	500	\$27.65
409-781	PTL-9-423	0.65 x 0.20	750	\$33.15
409-849	PTL-10-423	0.75 x 0.25	750	\$34.15
409-855	PTL-13-423	0.90 x 0.25	750	\$36.40
409-858	PTL-14-423	1.00 x 0.187	750	\$38.65
409-862	PTL-15-423	1.00 x 0.275	750	\$39.80
409-865	PTL-16-423	1.00 x 0.375	500	\$32.75
409-869	PTL-17-423	1.00 x 0.50	500	\$32.75
409-874	PTL-19-423	1.00 x 1.00	250	\$23.15
409-880	PTL-25-423	1.25 x 0.25	750	\$41.90
409-884	PTL-27-423	1.50 x 0.125	750	\$42.85
409-888	PTL-28-423	1.50 x 0.25	750	\$47.75
409-895	PTL-29-423	1.50 x 0.50	500	\$36.60
409-904	PTL-32-423	1.50 x 1.50	250	\$37.45
409-821	PTL-2-423	2.00 x 0.25	100	\$14.20
409-876	PTL-20-423	2.00 x 1.00	100	\$18.45
409-842	PTL-8-423	Continuous	—	\$38.25

Use exclusively with Brady TLS2200 & TLSPC Printers

TLS2200 Handheld Thermal Transfer Printer

Self Adjusting for all Printer Parameters

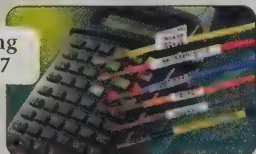
- 203 dpi
- 18 Font sizes
- Interface with a PC with LabelMark software
- Alpha & numeric serialization
- Built-in industry symbols
- Bar codes

Data is input via the built-in 59 key keypad and displayed on a 2 line by 16 character LCD. Font sizes are scalable for each individual line of text on your label. Comes with hard carrying case, rechargeable NiCad battery pack, 120VAC adapter/charger, serial cable, R6210 ribbon, dust cover, sample label roll, printer head cleaning card. Weighs 2.75 lbs. and measures 12" x 3.75" x 4.5".



Part No.	Model	Description	Price
409-774	TLS2200	TLS2200	\$798.00
409-777	TLS2200-BP	TLS2200 Extra Battery Pack	\$83.85
409-776	TLS2200-BC	TLS2200 Battery Charger	\$39.95
409-775	TLS2200-AC	TLS2200 AC Adapter	\$99.95
409-780	PCK-5	TLS2200 Cleaning Kit (5 cards)	\$12.75
409-778	R4310	TLS2200 Black Ribbon	\$24.15
409-779	R6010	TLS2200 Black Ribbon	\$24.15
412-148	TLS2200-SC	Soft Sided Carrying Case	\$64.95
424-410	LabelMark (LM3)	LabelMark Software	\$263.30

Wire Marking
Material 427



PCB & Component
Identification
Material 457 & 423





New

Part No.
424-857

IDXPERT™ Label Printers

Part No.
424-858

Two Keyboard Layouts with Identical Functionality and Supplies

- 300 dpi thermal transfer
- Drop, lock and print smart cartridges
- Die cut and continuous labels
- 82 symbols plus bar codes
- Banner printing
- Serialization
- Time/date stamp
- Fixed length & step printing
- User friendly

These printers feature a drop in smart cartridge that auto-senses label type and size. Each disposable cartridge comes with its own print ribbon saving you added cost and time in-between print jobs. Now you can be an expert on printing die-cut labels, self-laminating labels, wire & cable marker sleeves, continuous tapes and pipe markers. Available in two keyboard layouts; **Part No. 424-857** is the ideal choice for on the go and in the field applications. **Part No. 424-858** offers a qwerty keyboard layout for quick typing at your desk. Operates on 6 AA batteries (not included) or optional AC adapter (Part No. 424-872). Both models come complete with hard carry case, 1.5" x 30' continuous tape, PC Cable for upgrades only and product CD with tutorials.

Part No.	Model	Description	Price
424-857	XPERT-ABC	IDXPERT™ Printer with ABC Keypad	\$399.95
424-858	XPERT-KEY	IDXPERT™ Printer with Keyboard Layout	\$399.95
424-872	XPERT-AC	IDXPERT™ AC Adapter	\$59.95
473-002	EN91	AA Alkaline Battery	\$0.94
669-051	PCK-4	Printer Cleaning Kit (50 self-saturating swabs)	\$25.00

Permasleeve™ - Wire Marker Sleeves

Heat-shrink sleeves offer a fast shrink rate during installation. Available as individual 1" long markers or cut-to-length continuous supply.

Part No.	Model	Size	Wire Size AWG	Quantity	Price
424-859	XPS-125-1	1.015" x 0.235"	22 - 16	100	\$40.95
424-860	XPS-187-1	1.062" x 0.150"	18 - 12	100	\$44.95
424-861	XPS-250-1	1.015" x 0.439"	16 - 10	100	\$53.95
424-862	XPS-187-CONT	12" x 0.335"	18 - 12	Roll	\$50.95

Other sizes available - call for details

Vinyl Cloth - Wrap Around Wire Markers

Wrap around marker offers 360° visibility of legend and stays in place or can be removed cleanly and reapplied if necessary.

Part No.	Model	Size	Wire Size AWG	Quantity	Price
424-875	X-7-498	.50" x .50"	22 - 16	350	\$32.95
424-868	X-11-498	.50" x .75"	16 - 10	350	\$37.95
424-869	X-18-498	.75" x 1.00"	12 - 10	250	\$33.95
424-876	X-19-498	1.00" x 1.00"	12 - 10	250	\$37.95
424-877	X-18-498	1.00" x 1.25"	10 - 4	250	\$30.95

Vinyl Self Laminating - Wire Markers

Protect from chemicals and abrasion with this wrap around clear area which overlaminates the printed text.

Part No.	Model	Size	Wire Size AWG	Quantity	Price
424-863	XSL-96-427	1.00" x .75"	16-10	250	\$26.95
424-864	XSL-19-427	1.00" x 1.00"	12-10	250	\$34.95
424-865	XSL-103-427	1.00" x 1.25"	10-4	250	\$39.95
424-866	XSL-31-427	1.00" x 1.50"	10-4	250	\$41.95
424-867	XSL-21-427	1.00" x 2.50"	3-2/0	100	\$27.95

Other sizes available - call for details

Indoor/Outdoor Vinyl Label

Very pliable and conforms well to smooth or rough surfaces. Use on pipes, walls, doors, panels, shelving, bins and equipment. Resistance to oils, detergents, dirt, grime and many solvents.

Part No.	Model	Size	Color	Quantity	Price
424-870	XC-1500-580-WT-BK	30" x 1.5"	Black on White	Roll	\$51.95
424-871	XC-1500-580-YL-BK	30" x 1.5"	Black on Yellow	Roll	\$51.95

Other sizes and colors available - call for details



I.D. PRO™ Plus Hand-Held Printer

*Easily Print Wire Markers
and Labels at Remote Sites*

- Two type sizes
- Regular and bold type
- NiCad rechargeable battery pack
- LCD display
- Prints three widths of material (1/2", 1" and 1-1/2")
- Serialization capabilities

Printer can accommodate three different widths of material including 1/2", 1" and 1-1/2" wide rolls. Features a self-adjusting printhead that allows the user to print a wide variety of labeling materials including self-laminating and vinyl cloth. LCD display provides simple, easy-to-read directions and previews the information to be printed. Unit is powered by an interchangeable, rechargeable battery pack. Printer also comes with shock-absorbing boots to protect it from damage in the field. Comes complete with NiCad battery pack, 120VAC adapter/charger, R7300 ribbon and wrist strap. Optional accessories available. Printer weighs 1.6 lbs. and measures 11" x 3.75" x 4.5".

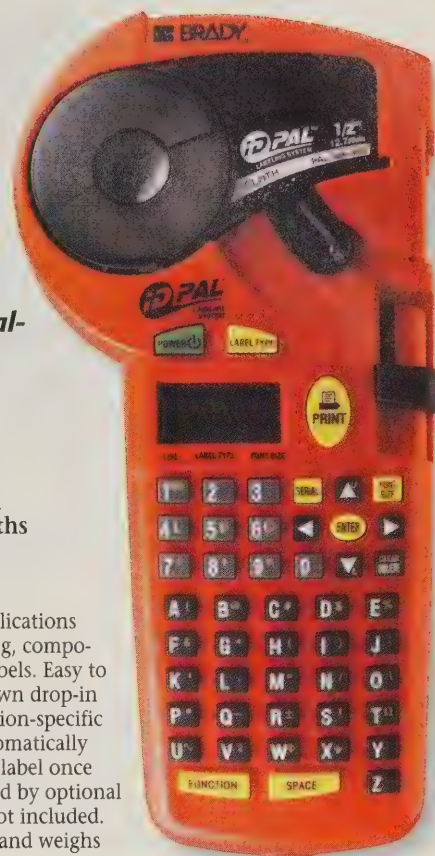


ID PAL™ Label Printer

*Affordable, Professional-
Quality Labels*

- Non-smearing thermal transfer printing
- Prints (banner, general and wire marking)
- Wire marking mode with 10 pre-programmed lengths
- Multiple line printing
- Automatic shut-off

Designed for a variety of applications including wire and cable marking, component marking, and general ID labels. Easy to peel labels are preloaded in its own drop-in cartridge, along with its application-specific ribbon. Built-in intelligence automatically senses tape size and formats the label once the cartridge is installed. Powered by optional AC adapter or six AA batteries not included. Measures 9" L x 4.5" W x 2.5" H and weighs only 1.2 lbs.



Part No.	Model	Description	Price
404-405	IDPRO-PLUS	I.D. PRO™ Plus Printer	\$430.00
411-236	R7300	Ribbon, Black	\$9.30
124-829	IDPRO-BC	120VAC Charger	\$20.95
124-830	IDPRO-BC12V	Adapter/Charger, 12VDC	\$29.15
124-832	IDPRO-HC	Protective Hard Case	\$46.65
400-378	IDPROBP	Battery Pack	\$45.75

Self Laminating Vinyl Wire Markers

Part No.	Style	Size (in.)	AWG Wire Size	Qty/ Roll	Price
124-995	WML305-292	0.5 x 1.25	6 to 10	250	\$21.00
124-998	WML311-292	1.0 x 1.25	6 to 10	250	\$28.25
124-999	WML317-292	1.5 x 1.25	6 to 10	250	\$33.35
124-991	WML205-292-1	0.5 x 1.00	10 to 12	250	\$21.10
124-993	WML211-292-1	1.0 x 1.00	10 to 12	250	\$26.00
124-992	WML205-29275	0.5 x 0.75	10 to 16	250	\$17.75
124-994	WML211-29275	1.0 x 0.75	10 to 16	250	\$23.45

Heat Shrink White Polyolefin Sleeves

Part No.	Style	Size (in.)	Wire Range Dia. Min.	Max.	Qty/ Roll	Price
408-912	WMS-111-321	1.0 x 0.35	0.075"	0.13"	500	\$164.85
408-915	WMS-117-321	1.5 x 0.35"	0.075"	0.13"	500	\$224.90
408-914	WMS-211-321	1.0 x 0.50	0.13"	0.235"	500	\$251.75
401-489	WMS-411-321	1.0 x 0.75	0.235"	0.375"	500	\$286.10
408-913	WMS-417-321	1.5 x .75"	0.235"	0.375"	500	\$350.15

Part No.	Description	Price
418-236	IDPAL Labeling Tool	\$145.75
418-239	IDPAL AC Adapter	\$34.60
473-002	Industrial Alkaline AA	\$0.94
418-242	IDPAL Impact Guards	\$9.45
418-243	IDPAL Hardside Carrying Case	\$30.85
418-244	White Polyester Cartridge, 3/8" x 21'	\$17.35
418-245	Clear Polyester Cartridge, 3/8" x 21'	\$17.35
418-246	White Vinyl Cartridge, 3/8" x 21'	\$18.35
418-247	White Cloth Cartridge, 3/8" x 19'	\$22.45
418-248	White Polyester Cartridge, 1/2" x 21'	\$17.35
418-249	Clear Polyester Cartridge, 1/2" x 21'	\$17.35
418-250	White Vinyl Cartridge, 1/2" x 21'	\$18.35
418-251	White Cloth Cartridge, 1/2" x 19'	\$22.45
418-252	White Polyester Cartridge, 3/4" x 21'	\$19.40
418-253	Clear Polyester Cartridge, 3/4" x 21'	\$19.40
418-254	White Vinyl Cartridge, 3/4" x 21'	\$21.40
418-255	White Cloth Cartridge, 3/4" x 19'	\$25.50
420-295	Red Vinyl Cartridge, 3/8" x 21'	\$18.45
420-298	Blue Vinyl Cartridge, 3/8" x 21'	\$18.45
420-401	Green Vinyl Cartridge, 3/8" x 21'	\$18.45
420-404	Orange Vinyl Cartridge, 3/8" x 21'	\$18.45
420-407	Yellow Vinyl Cartridge, 3/8" x 21'	\$18.45
420-296	Red Vinyl Cartridge, 1/2" x 21'	\$18.45
420-299	Blue Vinyl Cartridge, 1/2" x 21'	\$18.45
420-402	Green Vinyl Cartridge, 1/2" x 21'	\$18.45
420-405	Orange Vinyl Cartridge, 1/2" x 21'	\$18.45
420-408	Yellow Vinyl Cartridge, 1/2" x 21'	\$18.45
420-297	Red Vinyl Cartridge, 3/4" x 21'	\$21.55
420-400	Blue Vinyl Cartridge, 3/4" x 21'	\$21.55
420-403	Green Vinyl Cartridge, 3/4" x 21'	\$21.55
420-406	Orange Vinyl Cartridge, 3/4" x 21'	\$21.55
420-409	Yellow Vinyl Cartridge, 3/4" x 21'	\$21.55



PT-8000 P-Touch XL Printer

Professional Label Printer with a Full-Size Keyboard

- Thermal transfer (180 dpi)
- 3300 character storage memory
- Prints in English, Spanish or French
- Up to 5-line printing
- 7 type sizes - 10 point to 64 point
- 48 character LCD display (24 x 2 lines)
- 7 resident bar code protocols

Create laminated labels for every business, industrial, commercial and home application. Fast print speed and 50 ft. long tape cassette makes it ideal for high-volume labeling. Offers over 200 different letters, numbers, symbols and more than 540 different type variations. Prints vertically or horizontally and up to 5 lines, 10 styles, 6 sizes, 3 fonts. Includes AC adapter and one 1" x 50' black on white laminated tape TX type measures 11.8" x 11.9" x 3.1" and weighs 4.4 lbs. Optional Ni-Cd battery Part No. 108-034.

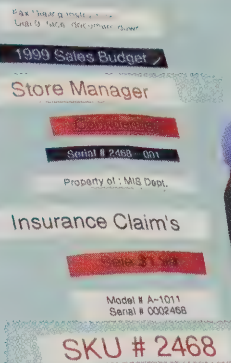
Part No.	Description	Price
108-800	PT-8000 Labeling System	\$546.00
108-034	Optional Ni-Cd Battery	\$102.00
108-005	3/8" Black/Clear Tape	\$28.30
414-458	3/8" Black/White Tape	\$33.25
108-006	1/2" Black/Clear Tape	\$28.30
414-459	1/2" Black/White Tape	\$33.25
108-007	3/4" Black/Clear Tape	\$36.00
108-411	3/4" Black/White Tape	\$43.80
414-456	1" Black/Clear Tape	\$40.15
414-213	1" Black/White Tape	\$45.35

All tapes are 50' length and laminated.

Laminated Labels for PT-2310 and PT1200

Laminated labels provide extra strength and durability against abrasions, spills, UV, chemicals, heat and cold. Each cartridge contains 26' of tape.

Part No.	Description	Price
108-024	1" Black/Clear Tape	\$22.85
108-025	1" Black/White Tape	\$24.50
108-026	3/4" Black/Clear Tape	\$19.40
108-027	3/4" Black/White Tape	\$21.40
108-028	Black/Clear Tape, 1/2"	\$17.35
412-608	Black/White Tape, 1/2"	\$18.00
108-030	3/8" x 26' Black on Clear Tape	\$13.60
108-031	3/8" x 26' Black on White Tape	\$17.35
108-032	1/4" x 26' Black on Clear Tape	\$13.25
108-033	1/4" x 26' Black on White Tape	\$14.55



PT-1200 Label Printer

Slim, Lightweight Design

- Tape size: (1/4, 3/8, 1/2")
- 70 built-in symbols
- 8 type styles
- 4 character LCD display with 300 character memory

Prints horizontally and vertically plus prints up to 2 lines and underlines and frames text all at the touch of a button. Includes (1) TZ laminated tape and (6) AAA batteries. 3.9 x 6.5 x 1.9" and weighs 1 lb.

Part No.	Description	Price
108-043	PT-1200 Label Printer	\$85.65
404-570	AC Power Supply	\$25.00

PT-2310 Labeling System

Typewriter-Style QWERTY Keyboard with PC Compatibility

- 20 character LCD display (10 x 2 lines)
- 8 type sizes - 6 point to 52 point
- 8 type styles
- 4 fonts
- Up to 6-line printing
- Stand-alone or PC compatibility

Create alpha numeric labels or labels that also incorporate graphics, signatures, logos, etc. Use as a stand-alone labeler or connect it to your PC and turn virtually any on screen font, image or graphic into a crisp P-touch label. System incorporates a built-in auto cutter and larger print characters. Includes (1) TZ laminated tape, case, Software CD-ROM and (8) AA batteries. 7.6" x 9.5" x 2.5" and weighs 1.8 lbs.

Part No.	Description	Price
419-306	PT-2310 Labeling System	\$182.00
108-035	AC Adapter	\$23.90

brother



PT-15 Professional Label Printer

Small Enough to Hold in The Palm of Your Hand

- 3/8" or 1/2" laminated tapes
- 5 type sizes
- 6 character LCD display with 500 character memory
- Typewriter-style keyboard
- Hard carry case included

Create abrasion-resistant labels on self-adhering laminated tape to protect your lettering. Includes one black on clear tape, 6 AA batteries and carrying case. Measures 7.5" x 5" x 2.5" weighs 1.5 lbs.

Part No.	Model	Description	Price
403-896	PT-15	PT-15 Labeler w/case	\$152.00
414-440	AD-20	AC Adapter	\$23.70

25 ft. Tape (1 pack)

Tapes are designed for use with the Brother Labeler. 3/8" wide tape is sold in 25 ft. rolls.

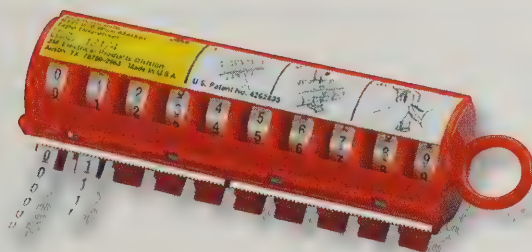
Part No.	Height	Color	Price
403-895	3/8	Black/White	\$16.55
403-890	3/8	Black/Silver	\$19.50
403-889	3/8	White/Clear	\$19.50

Replacement Tapes Labels for Professional Labeler

Part No.	Height	Color/Print/Tape	Price
124-938	1/2	Black/White	\$31.75
403-891	1/2	Black/Clear	\$30.30
124-939	1/2	Red/White	\$31.75
124-940	1/2	Blue/White	\$31.75

3M™

WireMarker Dispenser



Choose Between Numbers or Colors for Identification

Pre-Loaded with 10 rolls of numbers (0-9) or colors to identify cables or circuits. Dispenser protects the adhesive-backed rolls from dirt when not dispensing and includes metal cutter.

Part No.	Description	Price
190-836	STD-0-9 Dispenser with 0-9 Numbers	\$43.00
183-926	STD-C Dispenser with 10 Colors	\$43.90
183-475	STR-0-9 Refill, 0-9 Numbers, 1 roll each	\$27.40
183-916	STR-MC Refill, 10 Colors, 1 roll each	\$28.00

3M™

Write-On Tape System

Self-Laminating, Resistant To Dirt, Oil and Heat

- System includes permanent marker
- Tape roll contains 250 labels



Part No.	Description	Price
127-370	SWD Write-On Tape System	\$34.00
127-407	SWD-R Tape Refill	\$26.20
649-335	Replacement Marker, Black	\$1.90

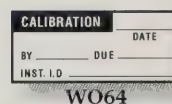
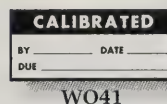
BRADY®

Write-on Labels

Perfect For Calibration of Equipment, Inspection and Testing Areas

Vinyl cloth material has preprinted legends with spaces to fill in pertinent information. Individual labels measure 1.50" x .625", and come 14 labels per card.

Part No.	Model	Color	Price
125-022	W041	Black on White	\$1.55
190-256	W064	Black on White	\$1.55
191-562	W01	Red on White	\$1.55



BRADY®

Tamper Seals

Designed For Sealing Access Points, Enclosures and Protecting Adjustments

Red-on-white labels are printed on tamper-evident vinyl material. Designed for sealing access points and enclosures, and for protecting adjustments. Available in two shapes with three different legends. Supplied in 20-page pocket sized books.

Part No.	Labels/Style	Legend	Size (in.)	Book	Price
124-969	TLPK1	WARRANTY VOID IF SEAL IS BROKEN	.800 dia.	300	\$20.20
124-973	TLPK2	CALIBRATION VOID IF SEAL IS BROKEN	.800 dia.	300	\$20.20
124-974	TLPK3	VOID IF SEAL IS BROKEN	.800 dia.	300	\$20.20
124-970	TLPK11	WARRANTY VOID IF SEAL IS BROKEN	.750 x .375	480	\$20.20
124-971	TLPK12	CALIBRATION VOID IF SEAL IS BROKEN	.750 x .375	480	\$20.20
124-972	TLPK13	VOID IF SEAL IS BROKEN	.750 x .375	480	\$20.20



An Insurance Policy. Not Just A Liquid.

Heavy Duty Staticide®

When the problem is static,
the solution is Staticide®.
Staticide® is a highly effective
easy-to-use topical solution
for long-term static control,
and the most recognized
name in anti-static
technology in the world.



Heavy Duty Staticide® is ideal for
eliminating static on carpets,
fabrics and porous surfaces.

See more ACL products
on pages
341, 345, 351,
358, 359 & 472

or go to
www.contacteast.com
www.jensentools.com

ACL **Staticide®**

ISO-9002 Registered

The leader in static control



Static Dissipative
Coating # 2500
Part No. 411-431



Mat & Table Top
Cleaner # 6001
Part No. 121-896



Ultra # 4600
Part No. 416-858



Heavy Duty # 2002
Part No. 121-881



General
Purpose # 2001
Part No. 121-880

Staticide® Wipes/Towelettes

One-Step Cleaning & Static Control

- 24 individually foil wrapped wipes

Keep your equipment clean and static free with these handy presaturated wipes. Featuring a specially blended biodegradable solution of Staticide® with DI water and isopropyl alcohol.

Part No.	Model	Description	Price
127-911	SW12	Staticide Wipes	\$7.35

Staticide® Anti-Static Wipes

Ideal for Use on Keyboards and CRT Screens

- Biodegradable formula

Cleans and removes static and prevents dust buildup on sensitive equipment. Use on all materials that are not affected by water or alcohol. 135 pre-moistened wipes (6" x 7.5") per canister.

Part No.	Model	Description	Price
418-503	SWC135	135 Wipe Canister	\$12.20

Staticide® Static-Dissipative Acrylic Floor Finish

Ideal for Electronics Areas, Laboratories and Warehouse

- Abrasion performance wearability up to 6 months
- Controls static generation even at low humidities
- Resists powdering and discoloration

Ideal for critical static control in all high-traffic areas. Designed for use on all types of sealed or hard floor surface. Including sealed concrete, marble, wood terrazzo, solid vinyl, vinyl asbestos and asphalt tile. Dries in one hour and one gallon covers approximately 1500-2000 sq.ft.

Part No.	Model	Description	Price
170-000	4000-1	Acrylic Floor Finish 1 Gallon	\$44.00
173-749	4000-5	Acrylic Floor Finish 5 Gallon	\$212.00

Static Dissipative Clear Permanent Coating

Stop Dangerous Static Electricity

- Water-based
- Non hazardous
- Dries to the touch in minutes
- Low VOC 40% max
- Non-ozone depleting
- Surface resistivity 10⁷ to 10¹⁰ ohms

This permanent coating uses a unique semi-conductor technology combined with ultra tough acrylic polymers to provide permanent static dissipation even under zero humidity conditions. Easily applied to plastics, painted metals, laminates, glass and paper.

Part No.	Model	Description	Price
411-431	2500	12 oz. Aerosol Can	\$46.90

These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.

Static Dissipative Hand Lotion

Improves Wrist Strap Performance

- Absorbs quickly
- Non-greasy
- Moisturizes skin

Hand lotion replenishes vital moisture on skin that is important for wrist strap performance. Will not contaminate surfaces, prevents and reduces static discharge in the electronic industry. Lotion does not contain any glycerin, lanolin, silicones, mineral oils, or other contaminants.

Part No.	Model	Description	Price
416-878	7001S	1 oz. Squeeze Bottle	\$1.60
417-346	7001	8 oz. Squeeze Bottle	\$3.15
417-347	7002	1 Gal. Bottle with Pump	\$41.90

* Call for Quantity Breaks.

Staticide® Ultra Static-Dissipative Floor Finish

Superior Abrasion Performance Lasting Up to 24 Months

- Excellent gloss
- Requires no buffing
- Controls static even at low relative humidities

This clear, high gloss, non-yellowing acrylic polymer floor finish is used for critical static control. Product is designed for use on all types of resilient flooring and most hard flooring surfaces. It may be applied to rubber, vinyl (including composition tile and sheet goods), cement, wood and epoxy coated floors. Dries in one hour and one gallon covers approximately 1800-2000 sq.ft.

Part No.	Model	Description	Price
416-858	4600-1	Ultra Floor Finish 1 Gallon	\$54.30
416-860	4600-5	Ultra Floor Finish 5 Gallon	\$238.70

Staticide® Anti-Static Protection

Eliminate and Help Prevent Static Generation

- Available in two formulations, (Heavy-Duty or General-Purpose)
- Effective in relative humidities below 15%
- Non-toxic, non-flammable, non-staining

Easy to apply on walls, ceilings, floors, carpets, and other materials. Available in two formulations. Heavy-Duty Staticide is used on porous surfaces such as clothing, carpeting and chairs. General Purpose Staticide is used on non-porous surfaces such as desk tops, plastic, glass, and vinyl floors.

Part No.	Model	Description	Size	Price
121-842	1010	Heavy-Duty	1 Pint	\$6.75
121-883	2005	Heavy-Duty	1 Quart	\$15.00
121-881	2002	Heavy-Duty	1 Gallon	\$50.55
121-882	2003	General-Purpose	1 Quart	\$9.70
121-880	2001	General-Purpose	1 Gallon	\$22.75

WRIST STRAPS



Economy Adjustable Wrist Straps

One Size Fits All with a Low-Cost Savings

- Comfortable band
- Locking clasp for adjustment
- Stainless steel back
- 4mm (1/8") snap
- Built-in 1MΩ resistor
- Swivel banana plug
- Available with 6 ft. or 12 ft. coil cord and alligator clip



Part No.	Description	Price
425-207	Wrist Strap with 6 ft. Cord	\$4.95
425-208	Wrist Strap with 12 ft. Cord	\$5.95

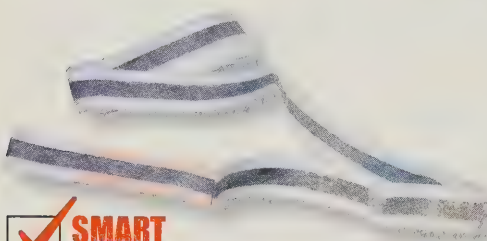
Grounding Plug for ESD Protection

Provides a Safe and Reliable Ground Connection



Designed to provide reliable ESD protection through a "proven" ground. Just insert into a three-wire 120V receptacle and its indicating lights will let you know if the circuit is wired properly with an effective ground. Standard banana-plug receptacle will accept banana-plug termination cord and wrist strap (not included).

Part No.	Description	Price
122-789	Grounding Plug for ESD Protection	\$30.80
423-569	Wrist Strap with 6 ft. Cord	\$10.45
423-570	Wrist Strap with 12 ft. Cord	\$12.15



Low-Cost Disposable Wrist Strap

Perfect for Installations, Field Service and Visitors

- One size fits all
- Flexible 4 ft. working length

Wraps and adheres comfortably around the wrist to maintain charge draining. Self-sticking copper foil at the other end adheres to the equipment you are servicing or any convenient electrical ground. Sold individual with instructions or bulk bag of 100 individual packaged wrist straps.

Part No.	Description	Price
424-810	Disposable Wrist Strap	\$0.95
423-200	Disposable Wrist Straps (100/Package)	\$89.95

DESCO Adjustable Wrist Strap

Adjustable Wrist Strap

Extra Wide Band for Increased Wearer Comfort

- 4mm (1/8") machined snap band
- Built-in 1MΩ resistor
- Available with 6ft. or 12ft. coiled cord and alligator clip

Features soft, absorbent, interwoven silver coated elastic band with a hinged buckle that allows continuity even if the buckle opens. Medical grade 300 series hypoallergenic stainless steel used for all metal parts.

Part No.	Model	Description	Price
127-008	09070	Wrist Strap with 6 ft. Cord	\$17.70
411-903	09069	Wrist Strap with 12 ft. Cord	\$18.15
127-003	09028	Replacement Wrist Strap	\$7.00

DESCO Adjustable Wrist Strap

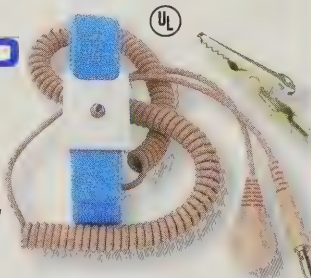
Adjustable Wrist Strap

Non-shedding, Non-Sloughing Band Material

- 4mm (1/8") machined snap band
- Built-in 1MΩ resistor
- Available with 6ft. or 10ft. coiled cord and alligator clip

Features soft, absorbent, interwoven silver coated elastic band with a hinged buckle that allows continuity even if the buckle opens. Medical grade 300 series hypoallergenic stainless steel used for all metal parts.

Part No.	Model	Description	Price
126-196	14810	Wrist Strap with 6 ft. Cord	\$17.70
126-197	14830	Wrist Strap with 10 ft. Cord	\$19.16
126-198	14840	Adjustable Wrist Strap Only	\$7.00



DESCO Speidel® Adjustable Wrist Strap

Speidel® Adjustable Wrist Strap

Durable—Won't Pinch or Pull Arm Hair

- One size fits all
- 4mm (1/8") machined snap band
- Built-in 1MΩ resistor
- 6ft. coiled cord with alligator clip

This wrist strap features a dependable Speidel® band with a patented design which will not pinch or pull hair. Unique back plate holds and locks band links to allow you to adjust the wrist band from 5.75" to 13" circumference. Stainless steel band features an insulating polyester film laminated to each link to protect the operator against shock.

Part No.	Model	Description	Price
127-009	09085	Speidel® Wrist Strap with 6 ft. Cord	\$28.35
127-004	09041	Speidel® Wrist Strap (without cord)	\$18.85



I.C. Static Dissipative Hand Lotion™

Keeps Skin Moist for Better Contact Between Your Wrist Strap and Skin

- Non-contaminating
- Non-greasy
- Absorbs immediately
- Clean room safe

I.C. lotion features a specially formulated conditioner with a blend of Aloe Vera and Vitamin A, D and E. Offers a pleasant fragrance and excellent moisturizing properties that relieves chapping, skin flaking, irritation and skin sensitivity.

Part No.	Description	Price
113-347	1 oz. Tube	\$2.00
113-345	8 oz. Bottle	\$4.45
160-266	8 oz. ESD-Safe Bottle	\$5.70
401-862	16 oz. ESD-Safe Bottle w/ Pump	\$10.30
113-348	32 oz. Bottle w/ Pump	\$13.15
113-346	1 Gal. Bottle	\$41.75
127-803	Pump for 1 Gallon Bottle	\$4.95
143-892	Wall Bracket for 32 oz. Bottle	\$28.45

* Call for Quantity Breaks.



3M™



Adjustable Wrist Straps

Full 360° Protection

- 4mm (1/8") snap band
- Built-in 1MΩ resistor
- Available with 6ft. or 10ft. coil cord and alligator clip

Soft and lightweight band adjusts easily to any wrist. Hinged closure secures band in place with no danger of becoming loose.

Part No.	Model	Description	Price
126-433	2214	Wrist Strap with 5 ft. Cord	\$16.90
126-441	2224	Wrist Strap with 10 ft. Cord	\$23.50
126-426	2204	Replacement Wrist Strap	\$6.80
126-429	2210	5 ft. Coiled Ground Cord	\$13.50
126-437	2220	10 ft. Coiled Ground Cord	\$17.10

3M™

Adjustable Wrist Strap

Lightweight Band and Cord

- 4mm snap band
- Built-in 1MΩ resistor
- 5ft. coiled cord with alligator clip



Comfortable band with silver-plated continuous monofilament threads ensure full 360° contact with the wrist.

Part No.	Model	Description	Price
130-141	2272	Wrist Strap with 5 ft. Cord	\$7.65

3M™

Adjustable Plastic Wrist Strap

Easy On/Easy Off Zipper Style Latching

- Low profile thermoplastic band with conductive interior
- 4mm (1/8") snap band
- Built-in 1MΩ resistor
- Lightweight 5 ft. coil cord with alligator clip



Part No.	Model	Description	Price
407-017	4650	Wrist Strap with 5 ft. Cord	\$10.75

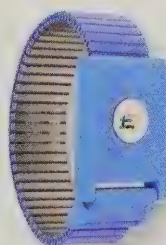
Static Control Components, Inc.
ESD Products Division



Adjustable Metal Wrist Band

Adjustable Links Assures a Secure and Comfortable Fit

- 4mm (1/8") machined snap band
- Built-in 1MΩ resistor
- Available with 6ft. or 12ft. coiled cord and alligator clip



Part No.	Description	Price
418-217	Adjustable Metal Wrist Band with 6 ft. Cord	\$16.75
418-386	Adjustable Metal Wrist Band with 12 ft. Cord	\$19.75

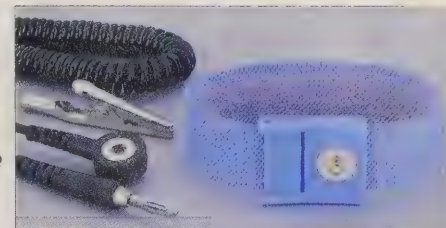
B BOTRON



Adjustable Wrist Strap

Premium Performance

- 4mm (1/8") snap band
- Built-in 1MΩ resistor
- Available with 6ft. or 12ft. coiled cord with alligator clip



Wrist strap features an elastic conductive fiber that with the hypoallergenic stainless steel base provides 360° of skin contact for reliability.

Part No.	Description	Price
407-060	Wrist Strap with 6 ft. Cord	\$10.25
407-061	Wrist Strap with a 12 ft. Cord	\$11.75
180-410	Replacement Wrist Strap	\$5.90

B BOTRON



Metal Adjustable Wrist Strap

Unique Back Plate Holds and Locks Links Securely

- One size fits all
- 4mm (1/8") machined snap band
- Built-in 1MΩ resistor
- 6ft. coil cord with alligator clip



Part No.	Description	Price
180-407	Metal Wrist Strap with 6 ft. Cord	\$21.75

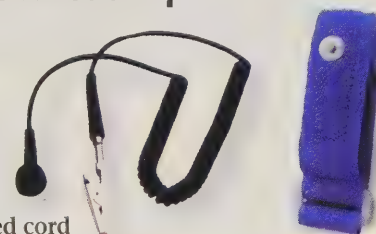
B BOTRON



Hook & Loop Adjustable Wrist Strap

Quick, Easy Adjustment to Any Size

- Sewn in conductive strip
- No exposed metal on outside
- 4mm (1/8") snap band
- Built-in 1MΩ resistor
- Available with 6ft. or 12ft. coiled cord with alligator clip



Part No.	Description	Price
65-095	Hook & Loop Wrist Strap with 6 ft. Cord	\$13.90
410-055	Hook & Loop Wrist Strap with 12 ft. Cord	\$15.85
425-219	Replacement Hook & Loop Wrist Strap	\$6.75

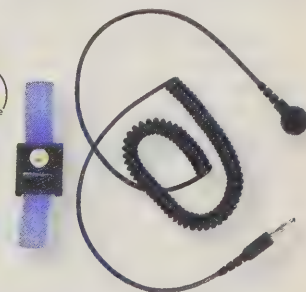
Static Control Components, Inc.
ESD Products Division



Adjustable Wrist Strap

High Tensile Strength Cord

- 4mm (1/8") machined snap band
- Built-in 1MΩ resistor
- Available with 6ft. or 12ft. coil cord with and alligator clip



This wrist strap is constructed of a soft fabric with hypoallergenic conductive silver threads which provides 360° skin contact with your wrist.

Part No.	Description	Price
417-305	Wrist Strap with 6 ft. Cord	\$10.50
418-456	Wrist Strap with 12 ft. Cord	\$12.10
175-673	Replacement Wrist Strap	\$4.95



New

SMART BUY

Economy Wrist Strap Tester

Compact Design and Easy-to-Use

- Complete with certificate of compliance and technical specs
- LED display and audible alarm
- Low battery indicator
- Compact size (2.75" x 3.5" x 1")

This quick check tester verifies that a continuous path between the operators wrist strap and ground cord are working properly. LED display with audible alarm indicates if the user has a faulty connection or in the passing range, (preset factory parameters 800K-10M). Operates with 9V battery included.

Part No.	Description	Price
425-206	Wrist Strap Tester	\$67.95



3M™

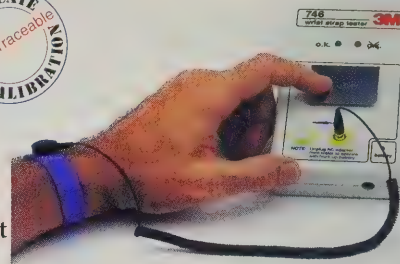


Wrist-Strap Tester

Check the Integrity of the Entire Wrist Strap

- Available with or without Certificate of Calibration
- Complete with lithium battery and AC adapter

From daily testing in your production facility to periodic testing at remote sites or field service locations. Easy to use tester monitors the conductive path through the users wrist band, snap connector, built-in resistor, cord and plug. Measures 6-1/4" x 3-3/4" x 1-1/4" and comes complete with instructions, wall mounting kit, lithium battery and 120V AC adapter. Available with or without a Certificate of Calibration, comes complete with a 1-year warranty. Wrist strap sold separately.

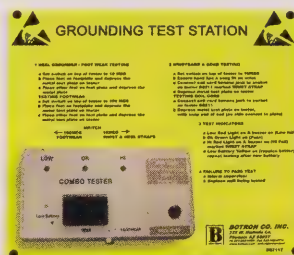


Part No.	Model	Description	Price
130-194	746	Tester without Certificate of Calibration	\$201.10
130-195	746CERT	Tester with Certificate of Calibration	\$342.45
407-017	4650	Wrist Strap with 5 ft. Cord	\$10.75

Part No. 423-540



Part No. 425-346



BOTRON New Wrist Strap and Combo Tester

Choose the Tester to Fit Your Needs

- Low battery indicator
- Operates on 9V battery
- Wrist strap range (>750k-10MΩ)
- Heel grounder range (>750k-10MΩ)
- Footwear range (>750k-105MΩ)

Wrist strap tester **Part No. 423-540** is portable or can be mounted to your workstation to quickly verify contact is made. Measures 3.25" x 6.25" x 1.25". **Part No. 425-346** combo wrist strap/footwear test station is wall mountable with easy to follow directions. Both operates on one 9V battery (not included).

Part No.	Description	Price
423-540	Wrist Strap Tester	\$125.00
425-346	Combo Wrist Strap and Footwear Tester	\$293.00
473-005	9V Alkaline Battery	\$2.85

DESCO

Wrist Strap/ Footwear Tester

Versatile and Simple to Operate

- Dual test circuits
- Optional AC adapter

Green "Pass" LED indicates that the wrist strap and ground cord assemblies are functioning properly. Red "Fail Lo" or "Fail Hi" LEDs with an audible indicator shows that the wrist strap and/or footwear resistance is either low or high. Tester pass range of 750K - 10MΩ for wrist straps and 750K-100MΩ for footwear. Operates with 9V battery included or optional 120V AC adapter (Part No. 161-930). Comes complete with a Certificate of Calibration.



Part No. 173-705

Part No.	Model	Description	Price
173-705	19250	Wrist Strap Tester (Only)	\$212.40
141-425	19253	Wrist Strap/Footwear Tester (Includes Foot Plate)	\$395.85
161-930	98256	120VAC Adapter	\$17.85
473-005	EN22	9V Alkaline Battery	\$2.85

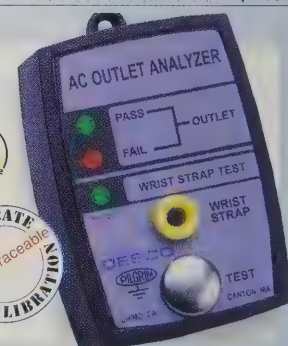
DESCO

AC Outlet Analyzer and Wrist Strap Tester

Provides a Proven Ground

- Works with any AC three prong 120V outlet
- Compact size
- Measures 2" x 3" x 1-1/4"

Use in the field or at your workstation. Analyzer is designed to confirm the outlet's wiring is correct and grounding wire is intact. Also offers a reliable path to earth ground for static discharge. Safely and quickly test that a continuous path between the operator, wrist strap and ground cord exists.



Part No.	Model	Description	Price
418-340	98130	AC Outlet Analyzer and Wrist Strap Tester	\$98.10



For an expanded selection of static protection products visit contacteast.com or jensentools.com

DESCO

Combo Wrist Strap & Footwear Tester

Confirms Wrist Straps and Shoe Grounders are Operating Properly

- Easy to operate and interpret
- Switch from wrist strap to footwear test
- Green light indicates passing test range
- Red light along with audible indicator warns of failing test

Safely checks that a continuous path between the operator, wrist strap and ground cord exists. Tester has a pass range of 750K-10MΩ for wrist straps and 750K-100MΩ for footwear. Comes complete with combo tester, stand, 9V battery, wall poster and hardware kit. Optional AC adapter available.

Part No.	Model	Description	Price
191-882	19252	Combo Tester	\$348.60
130-283	98256	120VAC Adapter	\$17.60



ACL Staticide

Combo Tester with Software

Test Wrist Straps and Heel Grounders Simultaneously and Individually

- Stores up to 5,000 employee's reports essential for ISO-9000
- Accommodates standard U.S. & European (CECC) wrist straps

Measures electrical resistance of wrist straps, left and right foot heel grounders from 500KΩ to 100MΩ (simultaneously and individually at 19 volts). Software generates employee's reports: (test results, daily log, employee failure exception, ESD certification expiration, attendance). Comes complete with software, 6 foot DB9 serial cable, stand, 9V battery, 120VAC adapter, 1-year warranty and a Certificate of Calibration. Accepts one of the two following optional upgrades: barcode scanner (Model 755) allows employee to swipe barcode I.D. cards or (Model 756) reads magnetic stripe I.D. cards.

Part No.	Model	Description	Price
409-405	750	Combo-Tester	\$1,285.00
412-365	755	Optional Barcode Scanner	\$363.75
418-378	756	Optional Magnetic Stripe Card Reader	\$396.35



Model 750
Shown with optional
barcode scanner

BOTRON

Combination Wrist Strap & Footwear Tester

Heavy Duty Stand

- Test range 750k-10MΩ

Designed for fast frequent testing of wrist straps/cords and heel/toe grounders. Constructed from welded steel 36" high and solid 1/4" aluminum floor plate (15" X18"). Requires 9V battery sold separately.

Part No.	Description	Price
420-818	Combo Tester with Stand	\$375.00
473-005	9V Alkaline Battery	\$2.85



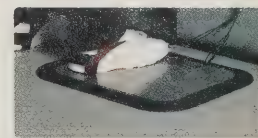
Wrist Strap and Footwear Testers

Check Resistance within Acceptable Limits

- Designed to be wall-mounted

Test the condition of wrist bands and ground cords, allowing you to identify the faulty component. Optional shoe electrode allows you to test heel grounding straps. Tester is microprocessor-controlled and features a digital output that can be used to interface with a computer or other controlling device such as an audible alarm. Comes complete with instruction manual, AC/DC transformer for 110V operation and 1-year warranty. Measures 5.43" x 7.48" x 2.09"

Part No.	Model	Description	Price
130-192	740CERT	Tester with Certificate of Calibration	\$558.95
130-249	741	Optional Shoe Electrode	\$110.30



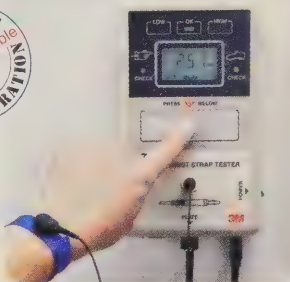
Wrist Strap and Footwear Tester with Software

Complete with Data Logging Software

- Verifies users against preset resistance limits
- 3-1/2" display
- Test results available on RS-232C serial port and output jack

Fully functional resistance tester allows you to control both heel grounders and wrist strap testing in a single unit. Heel grounder testing indicates low, ok and high test results. Set values for the upper and lower resistance limits can be varied. Upper limit: 10M ohms, 35M ohms or 100M ohms. Lower Limit: 100K ohms, 1.0M ohms. Wrist strap testing Upper limit: 5M ohms, 10M ohms or 35M ohms. Lower Limit: 650K ohms preset internally. RS-232C serial data port and output jack provides resistance value and pass/fail test results for computer data logging. Unit measures 7.7" x 4.7" x 1.89" and includes software, shoe test plate, AC Adapter (9 VDC, center positive) and Certificate of Calibration.

Part No.	Model	Description	Price
423-215	747	Tester with Software	\$2,000.00



SHOE GROUNDERS



Conductive Shoe Grounders

Cost Effective and Durable

- Built-in 1MΩ safety resistor

These reusable heel grounders provide static protection where personnel mobility is required, providing a continuous ground path from the operator to ESD-Safe floor or mat.

Part No.	Description	Price/Each
127-175	Reusable Shoe Grounder	\$4.55



Conductive Heel or Toe Grounders

- 1.5" cup design
- Available with blue or black strap
- Built-in 1MΩ safety resistor

Reusable shoe-grounders feature a dual layered cup design with a conductive rubber on the outside and a non-marking rubber on the inside.

Part No.	Description	Price
191-950	Shoe Grounder with Blue Strap	\$7.10
140-367	Shoe Grounder with Black Strap	\$7.10
407-086	Toe Grounder with Blue Strap	\$11.10



Static-Dissipative Shoe Grounders

Reversible 1.5" Cup Design

- Non-marking solid rubber
- Available with or without resistor

These shoe grounder features a solid static-dissipative rubber, (resistance to ground of 10⁶ ohms) which eliminates the need for a resistor. For added safety Part No. 423-539 offers a built-in 1MΩ resistor.

Part No.	Description	Price
412-373	Shoe Grounder without Resistor	\$8.80
423-539	Shoe Grounder with Resistor	\$10.95



DESCO Conductive Heel or Toe Grounders

- Built-in 1MΩ safety resistor

Shoe grounding straps provide dissipation of static charges for mobile personnel. Reusable straps provide a continuous ground path between shoes and static-protected mats and floors.

Part No.	Model	Description	Price/Each
126-237	17200	Reusable Heel Strap	\$8.55
126-239	17222	Reusable Toe Strap	\$12.95



DESCO Static-Dissipative Heel Grounders

Reversible, Extended Life Expectancy

- High visibility
- Non-marking
- Ideal for cleanrooms
- Available with or without safety resistor

Designed with a 3-Layer static-dissipative rubber providing a resistance to ground of 10⁶ ohms, which eliminates the need for a resistor. For added safety Part No. 412-353 offers a built-in 1MΩ resistor.

Part No.	Model	Description	Price
126-241	17250	Shoe Grounder without Resistor	\$10.60
412-353	17252	Shoe Grounder with Resistor	\$9.50



DESCO Conductive Full Coverage Sole Grounders

Offers Greater Contact Area to Floor

- Snap-lock fastening
- Built-in 1MΩ safety resistor

Black conductive outer layer and a non-marking lining to prevent marking shoes. Elastic material stretches for comfort and snap locks for positive fit.

Part No.	Model	Description	Price
140-369	17280	Fits Women's Shoe Size 4 to 8	\$15.55
140-370	17281	Fits Women's Size 6 and Men's Size 11	\$15.55
412-543	17282	Fits Men's Shoe Size 10 to 14	\$16.60



Conductive Heel Grounder

- Full size
- Reusable
- Built-in 1MΩ safety resistor

Part No.	Description	Price
175-658	Conductive Shoe Grounder	\$5.85



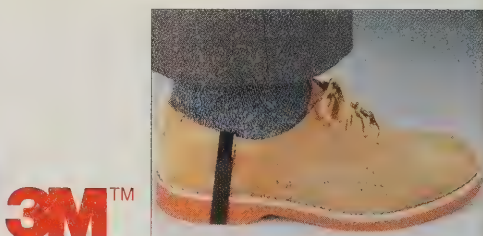
Conductive Shoe or Toe Grounders

Available with High Visibility Lime Green or Burgundy Strap

- Built-in 1MΩ safety resistor

Adjustable hook and loop strap offers a comfortable and secure fit all day long.

Part No.	Model	Description	Price
420-074	2044	Shoe Grounder with Lime Green Strap	\$4.70
126-327	2051	Shoe Grounder with Burgundy Strap	\$9.15
126-329	2053	Toe Grounder with Burgundy Strap	\$9.90



Disposable Shoe-Grounding Strap

One Size Fits All

- Ideal choice for visitors
- Economical

Provides a reliable path for static charge to drain to ground. For maximum ESD protection wear on both feet. 100 per package.

Part No.	Model	Description	Price/Pkg.
126-321	2045	Disposable Shoe-Grounding Straps	\$41.45



Anti-Static
Knit Cuffs



Static Dissipative Unisex Jackets

*Ground the Operator
and the Garment
Through One
Single Connection*

- Light-weight ■ Lapel collar
- Snap front closure
- Three patch pockets
- Adjustable snaps at wrists ■ Key-style grounding



Designed for static control protection against ESD generated by the user's body and clothing. Key-style option offers hand-free operation with a 4mm female snap on the sleeve facing inward for attachment to a wrist strap, and a 4mm male snap on the hip pocket for attachment to a ground cord, (not included). Available in blue.

Part No.	Model	Color	Size	Price
413-324	LOJ-23KEY-S	Blue	S	\$41.15
413-325	LOJ-23KEY-M	Blue	M	\$41.15
413-326	LOJ-23KEY-L	Blue	L	\$41.15
413-327	LOJ-23KEY-XL	Blue	XL	\$41.15
413-328	LOJ-23KEY-2XL	Blue	2XL	\$43.90

Model LOJ-23KEY Specifications

Material	87% Polyester, 13% Carbon Suffused Nylon Grid
Weight	2.3 oz/yd ²
Surface Resistivity	10 ⁵ ohms/sq.
Decay	0.01 sec.

WORKLON

Static Dissipative Unisex Lab Coats

*Great Choice When
Grounding is not Needed*

- Medium-weight ■ Lapel collar
- Snap front closure
- Open cuff with adjustable snaps
- Three patch pockets
- Pant pocket access slits



Part No.	Model	Color	Size	Price
411-855	6100	Royal Blue	S	\$31.70
191-972	6100	Royal Blue	M	\$31.70
191-974	6100	Royal Blue	L	\$31.70
191-976	6100	Royal Blue	XL	\$31.70
411-859	6100	Royal Blue	2XL	\$31.70
411-860	473	Blue	S	\$33.65
411-861	473	Blue	M	\$33.65
411-862	473	Blue	L	\$33.65
411-863	473	Blue	XL	\$33.65
411-864	473	Blue	2XL	\$33.65

Model 6100 and 473 Specifications

Material	65% Polyester, 34% Cotton, 1% Carbon Suffused Nylon Grid
Weight	5 oz/yd ²
Surface Resistivity	10 ⁸ ohms/sq.
Decay	0.01 sec.



DESCO

Statshield® Static Dissipative Unisex Smocks

Hip-to-Cuff Grounding

- Light-weight ■ Lapel collar
- Snap front closure
- Three patch pockets
- Conductive knit cuffs



Smocks offer protection against ESD generated by the user's body and clothing. Hip-to-cuff grounding offers hands-free operation. Just connect the ground cord socket (4mm) to the stud on the hip of jacket (4mm stud). Conductive knit cuffs do not require the use of a wrist strap. (Ground cord not included). Available in blue, teal and white.

Part No.	Model	Color	Size	Price
418-230	73851	Teal	S	\$42.70
418-231	73852	Teal	M	\$42.70
418-232	73853	Teal	L	\$42.70
418-233	73854	Teal	XL	\$42.70
418-234	73855	Teal	2XL	\$46.25
413-341	73750	Blue	S	\$42.70
413-340	73755	Blue	M	\$42.70
413-339	73760	Blue	L	\$42.70
413-338	73765	Blue	XL	\$42.70
413-337	73770	Blue	2XL	\$46.25

Model 73700 & 73800 Series Specifications

Material	88% Polyester, 12% Carbon Suffused Nylon Grid
Weight	2.25 oz/yd ²
Surface Resistivity	10 ⁵ - 10 ⁶ ohms/sq.
Decay	0.1 sec.

Static Dissipative Unisex 3/4 Length Coats



*Great for Shielding
without Grounding*

- Light-weight
- 3/4-Length
- Lapel collar
- Snap front closure
- Adjustable snaps at wrists ■ Three patch pockets



Designed for static control protection in areas where ESD sensitivity is important without needing to ground the garment. Available in blue or white.

Part No.	Model	Color	Size	Price
183-232	LEQ-43-S	Blue	S	\$30.45
175-991	LEQ-43-M	Blue	M	\$30.45
175-992	LEQ-43-L	Blue	L	\$30.45
413-235	LEQ-43-XL	Blue	XL	\$30.45
413-360	LEQ-43-2XL	Blue	2XL	\$32.50
413-560	LEQ-13-S	White	S	\$30.45
413-561	LEQ-13-M	White	M	\$30.45
413-562	LEQ-13-L	White	L	\$30.45
413-563	LEQ-13-XL	White	XL	\$30.45
413-564	LEQ-13-2XL	White	2XL	\$32.50

Models LEQ-43 and LEQ-13 Specifications

Material	98% Polyester, 2% Carbon Suffused Nylon Grid
Weight	3 oz/yd ²
Surface Resistivity	10 ⁶ ohms/sq.
Decay	0.1 sec.



For an expanded selection
of ESD Shielding garments
visit www.contacteast.com



Field-Service Static-Dissipative Grounding Kits

Portable ESD-Safe Work Station Available in Two Size

- Standard (24" x 24") and pocket (15" x 20") kits
- Includes adjustable wrist strap and grounding cord
- RTG 10⁶ - 10⁹ ohms

Part No. 127-157 measures 24" x 24" has two pockets and folds to 12" x 7". Part No. 180-421 measures 15" x 20" has one pocket and easily folds to 3" x 6". Both include adjustable wrist band with 8 ft. and 10 ft. common grounding cord with alligator clip. Optional grounding plug (Part No. 122-789), assures safe and effective grounding.

Part No.	Description	Price
127-157	Field-Service Grounding Kit	\$44.55
180-421	Pocket Field-Service Grounding Kit	\$38.95



Field Service Static-Dissipative Grounding Kit

Removes Static Charges from Field Service Repairs

Kit includes: static-dissipative mat with two pockets, one adjustable wrist band and ground cord assembly. Folds to a compact 8" x 12" to fit easily in your tool kit. Optional grounding plug (Part No. 122-789), assures safe and effective grounding.

Part No.	Model	Description	Price
126-987	8501	Field-Service Static-Dissipative Grounding Kit	\$61.70



JENSEN®

Solid Vinyl Workstation Kit

Durable Worksurface

- 2' x 4' blue vinyl mat, (.090" thick)
- 10' common point ground cord
- Wrist strap with 6' cord

Part No.	Description	Price
97-161	Solid Vinyl Workstation Kit	\$80.90



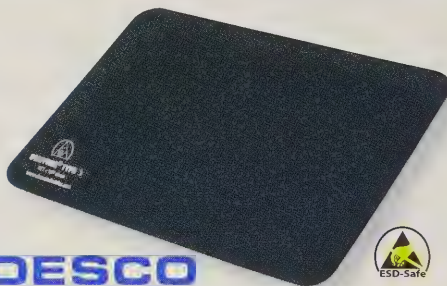
Field Service Static Protection Kit

Small Enough to Store in Your Pocket

- Measures (15" x 20")
- RTG 10⁶ - 10⁹ ohms

Kit includes: 15" x 20" work mat with one pocket, adjustable wrist band with a 5-ft. cord, coiled grounding cord (5-ft.) with alligator clip and additional 5-ft. extension grounding cord. Optional grounding plug (Part No. 122-789) assures safe and effective grounding.

Part No.	Model	Description	Price
126-989	8505	Field Service Kit	\$90.35



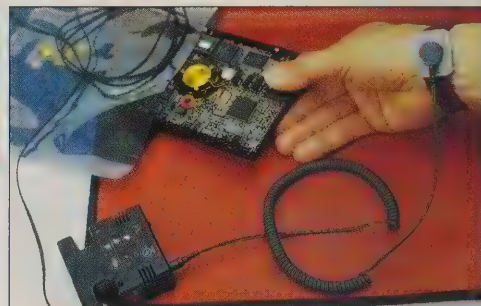
Statfree® Type J Dissipative Foam Rubber Mat

Use as a Liner for Trays, Carts and Drawers

- .125" Thick
- RTG 10⁵ - 10⁷ ohms

Natural resilient black dissipative non-skid foamed rubber provides an effective means of eliminating static charges when grounded. Designed to line dissipative trays, mobile process carts, shelves, bins drawers, or other areas where ESD sensitive parts are fragile and require cushioning. Mat must be placed upon a grounded surface or used with optional grounding kit Part No. 173-724 to dissipate charge.

Part No.	Model	Description	Price
412-385	45010	16" x 24" Mat	\$10.55
412-386	45000	24" X 40 ft. Roll	\$319.50
173-724	14234	Grounding Kit	\$15.55



Portable Wrist Strap Monitor

Compact Size for Use in Mobile Environments

- Parking snap
- Use 3M dual conductor wrist straps only

Monitor provides instant notification when a wrist strap malfunctions or when it is worn improperly. Continuously supplies a current that is returned through the wrist band and cord that contain two separate independent conductors. Measures only 2.5" x 2.625" x 1.125" operates with one 9V battery (not included). Wrist strap and cord (not included).

Part No.	Model	Description	Price
409-642	725	Portable Wrist Strap Monitor	\$84.80
473-005	EN22	9V Alkaline Battery	\$2.85
161-296	2368	Adjustable Fabric Wrist Strap without Cord	\$9.60
161-298	2360	Dual Coil Cord 5ft.	\$19.30
411-441	2370	Dual Coil Cord 10ft.	\$23.80
411-444	2371	Dual Coil Cord 20ft.	\$29.40



Softy® Static-Dissipative Vinyl Mats

Protects Expensive Worksurfaces and Aids in Small Parts Handling

- Economical and disposable
- Non-slip, cushioned surface
- 0.062" Thick
- Surface resistance 10¹⁰ - 10¹¹ ohms/sq.

Part No.	Model	Size(WxL)	Price
408-515	M11	11" x 14"	\$3.85
408-516	M14	14" x 22"	\$6.70



DESCO Dual Operator ESD Workstation Continuous Monitor



Provides Instant Notification of Static Control Failures

■ Monitors two wrist straps, ground cords and a work surface

Featuring wave distortion technology which monitors current/voltage phase shifts and provides 100% true continuous monitoring. The instant either operator's wrist strap or ground cord fails the monitor will issue audible and visible alarms. Monitor will also confirm if a path from the mat to ground is less than 500 Megohms. Measures 4.4" x 2.4" x 0.9". Complete with 120V AC adapter and ground cord with 10 mm male snap and one push/clinch 10 mm female socket and NIST-traceable certificate of calibration.

Part No.	Model	Description	Price
410-194	19208	Continuous Workstation Monitor	\$214.20

DESCO Mini Single Operator Workstation Continuous Monitor

Eliminates Requirement for Testing of Wrist Straps

- Compact size (2.77" x 2.07")
- Continuously monitors one wrist strap, ground cord and a mat
- Parking snap keeps alarm silent when leaving work area



Features a wave distortion technology which monitors current/voltage phase shifts and provides 100% true continuous monitoring. The instant an operator's wrist strap or cord fails, the monitor will issue audible and visual alarms alerting the operator of a problem. Unit also confirms if a path from the mat to ground is less than 500 Megohms. Two pairs of green and red LED indicators monitor the grounding status of the operator and the mat. Comes with 120VAC transformer, two 10 mm push and clinch snaps (sockets) and a Certificate of Calibration.

Part No.	Model	Description	Price
416-889	19212	Workstation Monitor	\$124.95



BOTRON Continuous Monitors



426-433



Eliminates Wrist Strap Record Keeping

- All units impedance based
- Uses standard wrist straps
- Trip level 6.5 megohms

426-434

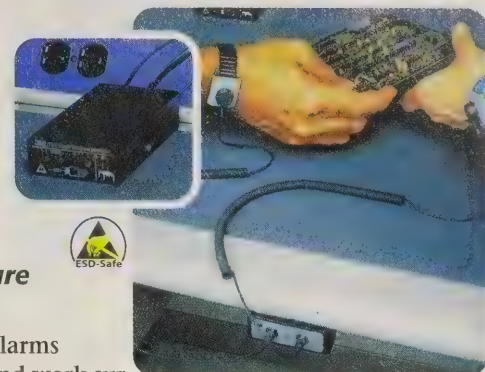


Designed for use with any single conductor wrist strap. Audible and visual alarms offer instant notification of static control failures. Three models to choose from. Includes 110V AC adapter.

Part No.	Description	Price
426-433	One Operator Monitor	\$75.50
426-434	One Operator and Mat Monitor	\$108.85
423-951	Two Operators and Mat Monitor	\$176.60



Dual Operator Constant Workstation Monitor



Ensures Operators and Work Surface are Properly Grounded

- Audible and visible alarms
- Monitors operators and work surface continuously
- Includes operator's resistance in test circuit

Monitors, Operator resistance: System uses a dual conductor wrist strap cord to include the operator's resistance in the test circuit are functioning properly. **Resistor bypass warning:** If the current limiting resistors are bypassed a yellow light flashes. Dual grounding path: Dual conductor system provides redundant ground paths with an effect similar to wearing two wrist straps. This means that your product is not exposed to ESD-even if one conductor fails.

Monitor work surface: Work station monitor also checks its own connection to ground, and the grounding of a work surface. Optional stand-by jack (Model 3057) allows operator to unplug the wrist strap when leaving the station, without activating the alarm. Optional dual remote splitter (Model 733) allows monitoring of two operators working at two separate stations or surfaces. Operates on 120VAC and comes complete with dual conductor jack, power supply, hardware, and instructions. Wrist straps and cords not included. **Monitor can only be used with the wrist straps and cords listed below.** Designed to work with 3M static-dissipative mats: 3-layer vinyl 8200 series and 2-layer rubber 8800 series.

Part No.	Model	Description	Price
409-641	724	Monitor for Two Operators	\$160.30
161-296	2368	Adjustable Fabric Wrist Strap without Cord	\$9.60
161-298	2360	Dual Coil Cord 5ft.	\$19.30
411-441	2370	Dual Coil Cord 10ft.	\$23.80
411-444	2371	Dual Coil Cord 20ft.	\$29.40
126-506	3057	Optional Stand-by Jack (one required per operator)	\$9.70
403-713	733	Optional Dual Remote Splitter	\$32.75



Dual Operator Static Monitor

Measures Voltage on a Person Referenced to Earth Ground



- Mounts to workstation or equipment
- Audible and visual alarm
- Select voltage alarm levels
- Static dissipative plastic housing
- Compact size (3.5" x 4" x 1.25")

Measures voltage on a person wearing a dual conductor wrist strap and cord. Can only be used with 3M wrist strap and cord listed below and ordered separately. Slide switch allows the user to select four different voltage levels for a specific job being performed. Example: (1V and 3V levels are used for highly critical applications in disk drive and wafer fabrication, 6V and 9V levels are used in PCB assembly). Comes with 120VAC adapter, grounding wires and mounting plate. Optional stand-by jack (Part No. 126-506) allows the operator to unplug the wristband when leaving the station without activating the alarm.

Part No.	Model	Description	Price
418-185	790	Dual Operator Static Monitor	\$81.40
418-184	2368VM	Dual Grey Fabric Wrist Strap Only (without cord)	\$14.35
161-298	2360	Dual Coil Cord 5ft.	\$19.30
411-441	2370	Dual Coil Cord 10ft.	\$23.80
126-506	3057	Optional Stand-by Jack (one required per operator)	\$9.70

MATS

3M™



Two-Layer Static Dissipative Rubber Mats

Table and Floor Mats

- 0.065" Thick
- Heat, chemical and abrasion resistant
- Surface resistance $10^6 - 10^7$ ohms

Comes complete with a wrist strap grounding cord. Floor mats come complete with a 15 ft. ground cord.

Part No.	Model	Description	Size	Color	Price
403-772	8810	Table Mat	24" x 48"	Grey	\$63.40
403-773	8811	Table Mat	24" x 48"	Blue	\$65.35
403-774	8830	Table Mat	36" x 48"	Gray	\$117.55
403-775	8831	Table Mat	36" x 48"	Blue	\$117.55
403-776	8870	Floor Mat	48" x 72"	Grey	\$178.35
403-777	8871	Floor Mat	48" x 72"	Blue	\$178.35

DESCO

Statfree® Type T2 Two-Layer Static-Dissipative Rubber Table Mats

- 0.060" Thick
- Heat, chemical and abrasion resistant
- Surface resistance $10^6 - 10^8$
- Meets ANSI/ESD S20.20 and EIA-625

Soft rubber mat feature a non-glare surface and can be easily cleaned. Comes complete with snap kit, and 15 ft. common-point ground cord with dual 4mm banana plugs. Rolls do not include snaps and grounding cords.

Part No.	Model	Description	Size	Color	Price
126-883	66040	Mat	24" x 36"	Blue	\$65.85
126-885	66050	Mat	24" x 36"	Grey	\$65.85
126-881	66030	Mat	24" x 36"	Beige	\$68.10
126-884	66045	Mat	24" x 48"	Blue	\$81.45
126-886	66055	Mat	24" x 48"	Grey	\$81.45
126-882	66035	Mat	24" x 48"	Beige	\$81.43
173-566	66070	Roll	24" x 40 ft.	Blue	\$519.60
184-019	66080	Roll	24" x 40 ft.	Grey	\$519.60
175-350	66060	Roll	24" x 40 ft.	Beige	\$519.60
416-887	66110	Roll	30" x 40 ft.	Blue	\$645.50
417-373	66105	Roll	30" x 40 ft.	Grey	\$649.45
417-369	66115	Roll	30" x 40 ft.	Beige	\$648.45
417-371	66075	Roll	36" x 40 ft.	Blue	\$763.95
417-374	66085	Roll	36" x 40 ft.	Grey	\$763.95
411-788	66065	Roll	36" x 40 ft.	Beige	\$763.95
417-372	66095	Roll	48" x 40 ft.	Blue	\$1,040.15
417-375	66100	Roll	48" x 40 ft.	Grey	\$1,039.15
417-370	66090	Roll	48" x 40 ft.	Beige	\$1,039.15
406-666	14213	Grounding Kit	15 ft. Cord	Black	\$15.55



BOTRON Two-Layer Static-Dissipative Rubber Table Mats

- 0.060" Thick
- Heat, chemical and abrasion resistant
- Surface resistance 5.2×10^7 ohms

Comes complete with ground snap and 10 ft. common point ground cord. Rolls do not include snaps and grounding cords.

Part No.	Description	Size	Color	Price
407-037	Mat	24" x 36"	Blue	\$60.10
407-038	Mat	24" x 36"	Grey	\$57.95
407-039	Mat	24" x 48"	Blue	\$75.10
407-040	Mat	24" x 48"	Gray	\$75.10
417-389	Roll	24" x 50 ft.	Blue	\$548.90
417-393	Roll	24" x 50 ft.	Grey	\$548.90
417-390	Roll	30" x 50 ft.	Blue	\$737.00
417-394	Roll	30" x 50 ft.	Grey	\$737.00
417-391	Roll	36" x 50 ft.	Blue	\$819.50
417-395	Roll	36" x 50 ft.	Grey	\$819.50
417-392	Roll	48" x 50 ft.	Blue	\$1,086.70
417-396	Roll	48" x 50 ft.	Grey	\$1,086.70
406-666	Grounding Kit	15 ft. Cord	Black	\$15.55

Two-Layer Static-Dissipative Table Mats

Lightly Embossed Surface Reflects Light

- 0.080" Thick
- Heat, chemical and abrasion resistant
- Surface resistance $10^6 - 10^8$

Complete with snap and 10 ft. common-point grounding cord. Rolls do not include snaps and grounding cords.

Part No.	Description	Size	Color	Price
410-199	Mat	24" x 36"	Blue	\$53.10
190-936	Mat	24" x 36"	Grey	\$53.10
190-938	Mat	24" x 48"	Blue	\$65.50
190-940	Mat	24" x 48"	Grey	\$65.50
190-942	Roll	24" x 40 ft.	Blue	\$545.00
190-944	Roll	24" x 40 ft.	Grey	\$545.00
417-397	Roll	30" x 40 ft.	Blue	\$655.00
417-398	Roll	30" x 40 ft.	Grey	\$655.00
417-399	Roll	36" x 40 ft.	Blue	\$769.00
418-500	Roll	36" x 40 ft.	Grey	\$701.25
418-501	Roll	48" x 40 ft.	Blue	\$969.00
418-502	Roll	48" x 40 ft.	Grey	\$899.90
406-666	Grounding Kit	15 ft. Cord	Black	\$15.55

Static Control Components, Inc.
ESD Products Division

Two-Layer Static-Dissipative Rubber Table Mats

- 0.060" Thick
- Heat, chemical and abrasion resistant
- Surface resistance $10^6 - 10^7$ ohms
- Meets EOS/ESD S4.1, EIA 65, MIL-HDBK-263 and MIL-STD-1686 requirements

These mats are constructed with a two layer dissipative and conductive rubber. Comes with two snaps and one 15 ft. common ground cord system. Rolls do not include snaps and grounding cords.

Part No.	Description	Size	Color	Price
413-220	Mat	24" x 36"	Blue	\$52.80
190-956	Mat	24" x 36"	Gray	\$52.80
418-189	Mat	24" x 48"	Blue	\$67.05
418-190	Mat	24" x 48"	Gray	\$67.05
413-199	Roll	24" x 50 ft.	Blue	\$545.70
413-202	Roll	24" x 50 ft.	Gray	\$545.70
420-053	Roll	30" x 50 ft.	Blue	\$682.15
420-054	Roll	30" x 50 ft.	Gray	\$682.15
420-055	Roll	36" x 50 ft.	Blue	\$818.55
420-056	Roll	36" x 50 ft.	Gray	\$818.55
420-057	Roll	48" x 50 ft.	Blue	\$1,090.00
420-058	Roll	48" x 50 ft.	Gray	\$1,090.00



ACL Staticide® Mat & Table Top Cleaners

Clean and Maintains Surface Resistivity in One Easy Step

- Leaves no film
- Non-streaking
- Non-flammable
- Non-abrasive

For use on conductive workstations, table tops, and static-dissipative mats. Removes flux residues, oil, finger marks, grease, dirt/grime, and inorganic contaminants.



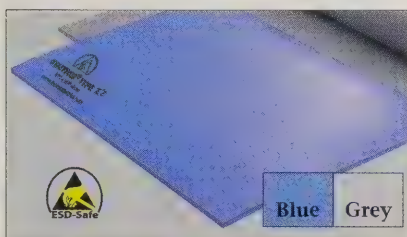
Part No.	Model	Description	Price
121-896	6001	Mat & Table Cleaner, 1 Quart Trigger Spray	\$7.10
121-897	6002	Mat & Table Cleaner, 1 Gallon Refill	\$23.55
423-549	MTT20	Mat & Table Cleaner Wipes (9.5" x 12"), Canister	\$9.95

DESCO Statfree® Type Z2 Dissipative 3-Layer Vinyl Table Mats

**Ideal Choice with
Continuous Monitors**

- 0.125" Thick
- Ideal for use with continuous monitors
- Surface resistance $10^6 - 10^8$ ohms
- Meets ANSI/ESD S20.20 and EIA-625

Mats feature a three-layer construction. Comes complete with 15 ft. resistive common point ground cord and ground snap installation kit. Rolls do not include snaps and grounding cords.



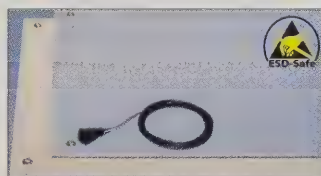
Part No.	Model	Description	Size	Color	Price
405-393	42460	Mat	24" x 36"	Blue	\$62.55
405-395	42470	Mat	24" x 36"	Grey	\$62.55
405-394	42465	Mat	24" x 48"	Blue	\$73.15
405-396	42475	Mat	24" x 48"	Grey	\$73.15
417-377	42500	Roll	24" x 50 ft.	Blue	\$472.20
417-381	42515	Roll	24" x 50 ft.	Grey	\$472.20
417-378	42516	Roll	30" x 50 ft.	Blue	\$590.05
417-382	42517	Roll	30" x 50 ft.	Grey	\$590.05
417-379	42518	Roll	36" x 50 ft.	Blue	\$708.55
417-383	42519	Roll	36" x 50 ft.	Grey	\$708.55
417-380	42520	Roll	48" x 50 ft.	Blue	\$944.25
417-384	42530	Roll	48" x 50 ft.	Grey	\$944.25
406-666	14213	Grounding Kit	15 ft. Cord	Black	\$15.55

3M™ 3-Layer Static-Dissipative Vinyl Table and Floor Mats

- 0.138" Thick
- Middle layer allows charge to dissipate rapidly
- Surface resistance 10^7 ohms

Mats feature a three-layer construction. Top layer is durable static dissipative vinyl. Middle layer is a highly conductive scrim that provides an instant discharge path to ground. Bottom layer is static dissipative foam providing a durable non skid cushion. Table mats come complete with one common point ground cord and two female snap fasteners. Floor mats come complete with one 15 ft. ground cord and two female snap fasteners.

Part No.	Model	Description	Size	Color	Price
126-970	8214	Table Mat	24" x 48"	Blue	\$56.90
126-969	8213	Table Mat	24" x 48"	Grey	\$56.90
126-967	8211	Table Mat	24" x 48"	Brown	\$56.90
126-965	8204	Floor Mat	48" x 72"	Blue	\$142.90
126-964	8203	Floor Mat	48" x 72"	Grey	\$142.90



B BOTRON

3-Layer Static-Dissipative Vinyl Table Mats

- Cushioning
- .120" thick
- Ideal for use with continuous monitors
- Surface resistance 5×10^7 ohms

Constructed from dissipative vinyl with a conductive scrim in the center, bottom layer offers a dissipative foam backing. 10 ft. common point ground cord included. Rolls do not include snaps or grounding cord.

Part No.	Description	Size	Color	Price
180-426	Mat	24" x 36"	Blue	\$47.30
424-479	Mat	24" x 36"	Gray	\$44.20
180-428	Mat	24" x 48"	Blue	\$52.85
424-480	Mat	24" x 48"	Gray	\$53.95
424-481	Mat	24" x 60"	Gray	\$73.55
424-482	Mat	24" x 72"	Gray	\$88.30
180-427	Mat	30" x 48"	Blue	\$81.45
424-483	Mat	30" x 48"	Gray	\$73.55
140-508	Roll	24" x 40 ft.	Blue	\$326.60
424-484	Roll	24" x 50 ft.	Gray	\$399.95
424-477	Roll	30" x 40 ft.	Blue	\$408.45
424-485	Roll	30" x 50 ft.	Gray	\$441.00
424-486	Roll	36" x 50 ft.	Gray	\$529.10
180-429	Roll	48" x 40 ft.	Blue	\$625.40
424-487	Roll	48" x 50 ft.	Gray	\$705.50

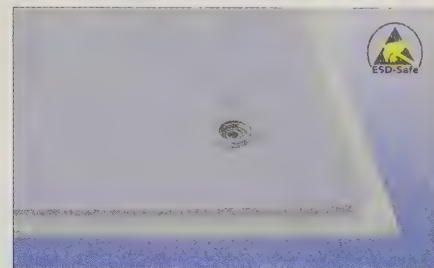
Static Control Components, Inc.
ESD Products Division

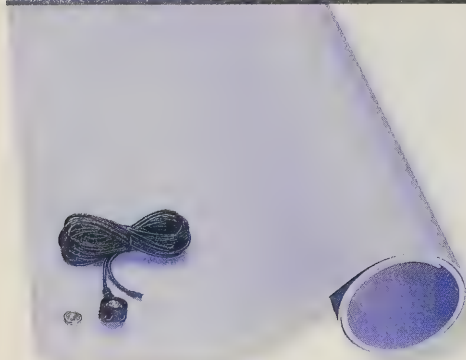
3-Layer Static-Dissipative Vinyl Table Mats

- .125" thick
- Surface resistance $10^8 - 10^9$ ohms
- Meets EOS/ESD S4.1, EIA 65, MIL-HDBK-263 and MIL-STD-1686 requirements

Mats are constructed with three-layers. Top layer is dissipative vinyl, inner layer is conductive scrim and bottom layer is a skid resistance dissipative cushioning foam vinyl. Comes with two 3/8", 10mm snaps and one 15 ft. common ground cord system. Rolls do not include snaps and grounding cords.

Part No.	Description	Size	Color	Price
413-203	Mat	24" x 36"	Blue	\$46.65
413-208	Mat	24" x 36"	Gray	\$46.65
413-204	Mat	24" x 48"	Blue	\$58.90
418-191	Mat	24" x 48"	Gray	\$58.90
420-059	Roll	24" x 50 ft.	Blue	\$392.70
420-060	Roll	24" x 50 ft.	Gray	\$392.70
420-061	Roll	30" x 50 ft.	Blue	\$490.90
420-062	Roll	30" x 50 ft.	Gray	\$490.90
420-063	Roll	36" x 50 ft.	Blue	\$589.05
420-064	Roll	36" x 50 ft.	Gray	\$589.05
420-065	Roll	48" x 50 ft.	Blue	\$785.40
420-066	Roll	48" x 50 ft.	Gray	\$785.40





BOTRON



Static-Dissipative Solid Vinyl Table Mats

Solid Reversible Vinyl Material

- 0.090" Thick
- Surface resistance 5.3×10^7 ohms
- Meet or exceed EOS/ESD standards

Easily cleaned and resistant to most chemicals used in electronic assembly areas. Complete with a 3/8" (10mm) ground snap, and a 10 ft. common point ground cord. Rolls do not include snaps and grounding cords.

Part No.	Description	Size	Color	Price
407-054	Mat	24" x 36"	Blue	\$51.30
407-055	Mat	24" x 48"	Blue	\$67.30
407-056	Mat	24" x 60"	Blue	\$85.95
407-057	Mat	24" x 72"	Blue	\$103.25
417-385	Roll	24" x 50 ft.	Blue	\$465.40
417-386	Roll	30" x 50 ft.	Blue	\$575.00
142-429	Roll	36" x 50 ft.	Blue	\$597.20
417-388	Roll	48" x 50 ft.	Blue	\$904.90
406-666	Grounding Kit	15 ft. Cord	Black	\$15.55



DESCO

Micastat® Dissipative Work Bench Laminate

Rugged Material Resists Abrasion, Chemical, Solder and Thermal Damage

- 0.040" Thick
- Surface resistance $10^6 - 10^8$ ohms
- Meets ANSI/ESD S20.20

Provides quick efficient upgrading of existing benchtops into static-safe work areas. Underside has pressure-sensitive adhesive around the perimeter and across the center for rapid and secure installation. Come complete with a 15 ft. grounding cord and a snap fastener with a swivel banana plug receptacle that will accept all wrist straps.

Part No.	Model	Size	Color	Price
126-069	10344	24" x 36"	ESD Blue	\$109.90
126-064	10310	24" x 36"	ESD Beige	\$109.90
126-068	10342	24" x 36"	ESD Grey	\$109.90
126-075	10384	24" x 48"	ESD Blue	\$130.15
126-070	10350	24" x 48"	ESD Beige	\$130.15
126-074	10382	24" x 48"	ESD Grey	\$130.15



DESCO

Statfree® Type B Dissipative Homogeneous Vinyl Table Mats

Use As a Worksurface or Floor Mat

- 0.100" Thick
- Reversible
- Use as worksurface or floor mat
- Surface resistance 10^9-10^{10} ohms

Homogenous vinyl work surface drains static charges from anything that comes in contact with it, preventing static build-up. Static control properties feature zero voltage suppression and complete charge drainage. It has a light texture surface which absorbs impacts and resists most chemicals and detergents. Mats come complete with 15 ft. grounding cord (09826) and 1 female snap fastener kit (09864). Thickness 0.1 inch. Rolls do not include snaps and grounding cords.

Part No.	Model	Description	Size	Color	Price
126-227	16213	Mat	24" x 36"	Blue	\$48.50
126-225	16201	Mat	24" x 36"	Beige	\$48.50
126-228	16214	Mat	24" x 48"	Blue	\$58.20
126-226	16202	Mat	24" x 48"	Beige	\$58.20
126-231	16260	Roll	24" x 40 ft.	Blue	\$324.85
126-230	16250	Roll	24" x 40 ft.	Beige	\$324.85
417-376	16251	Roll	24" x 100 ft.	Beige	\$812.10
406-666	14213	Grounding Kit	15 ft. Cord	Black	\$15.55

DESCO



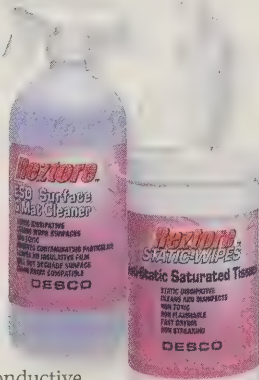
Reztore™ Surface & Mat Cleaner

Removes Flux residues, Dust, Grease, Grime and Fingerprints

- Silicone free
- Non-toxic
- Non-flammable

Cleans static dissipative and conductive mats, tables, computer monitors, keyboards, electronic and medical equipment, etc. Available in 16 oz. or 1 quart bottle with trigger spray, 2.5 gallon bag-in-box with spout to refill bottles or 160 pre-moistened wipes (6" x 6") packaged per pop-up static dissipative dispenser.

Part No.	Model	Description	Price
423-165	10434	Surface & Mat Cleaner, 16 oz.	\$5.75
409-747	10435	Surface & Mat Cleaner, 1 Quart	\$7.10
418-300	10438	Surface & Mat Cleaner 2.5 Gallon	\$42.70
173-885	10600	Static-Wipes Pop-Up Dispenser	\$17.10



Workstation Grounding Kits

Deluxe Kit Offers The Basics For an Static-Safe Workstation

Standard Workstation Kits consist of (2 x 4') 3-layer static dissipative table mat. Wrist strap/table mat grounding system, adjustable wrist strap with a 5' coiled ground cord, (4 x 6') black floor mat (constructed from conductive 3M Velostat) with 15" grounding cord. All groundingcords offer a 1MΩ safety resistor.

Deluxe Workstation Kits includes 3-layer static dissipative table mat (2x4') and floor mat (4x6') both mats feature same material and color. Wrist strap/table mat grounding system, adjustable wrist strap with a 5' coiled ground cord, (4 x 6') black floor mat (constructed from conductive 3M Velostat) with 15" grounding cord. All grounding cords offer a 1MΩ safety resistor.

Part No.	Model	Description	Price
126-953	8033	Standard Workstation Kit, Gray	\$369.25
126-954	8034	Standard Workstation Kit, Blue	\$369.25
126-947	8023	Deluxe Workstation Kit, Grey	\$392.00
126-948	8024	Deluxe Workstation Kit, Blue	\$392.00
126-969	8213	Table Mat with Ground Cord, Gray	\$56.90
126-970	8214	Table Mat with Ground Cord, Blue	\$56.90
126-243	1864	Floor Mat Only, Black Velostat, 4 x 6'	\$254.95
191-872	8001	1 Quart Spray Cleaner for Mats	\$5.15



126-948 Deluxe Workstation Kit



DESCO

Wrist Strap Grounding System

■ 10 ft. cord

Mounts under the front edge of a workstation and allows two operators to ground their wrist straps. Two 4 mm "parking studs" provided holding of wrist strap cord when the operator disconnects to leave workstation.

Part No.	Model	Description	Price
151-077	09740	Wrist Strap Grounding System	\$15.10



3M™

Wrist-Strap Grounding System

Accepts Two Wrist Straps

■ 10 ft. cord

Grounds two wrist straps using a common point to ground. Measures only 3" x 1-1/2", mounts easily under your workstation.

Part No.	Model	Description	Price
126-497	3042	Wrist-Strap Grounding System	\$21.25



DESCO

Universal Snap Kit

For Use with a Wide Range of Mat Thickness

Allows installation of snap exactly where needed. Recommended for 2 layer rubber and vinyl homogeneous mats. Kit includes: 10mm stud, 10 mm socket, long screw, short screw, nut, washer and ESD common point ground label.

Part No.	Model	Description	Price
127-029	09864	Universal Snap Kit	\$2.40



New

BOTRON

Snap Tool

Install Snaps Where You Need Them

■ Optional 3/8" female or male snaps with rivets

Snap attaching tool holds snaps and rivets in place for easy insulation through mat material.

Part No.	Description	Price
143-525	Snap Attaching Tool	\$35.90
141-403	3/8" Female Snaps with Rivets, 100/Pkg	\$17.30
180-434	3/8" Male Snaps with Rivets, 100/Pkg	\$17.30



New



Economy Common Point Ground Cord

Ground Your Mat and Two Wrist Straps at One Connection

- Available in 6 ft., 10 ft. and 15 ft. lengths
- Two banana jacks
- Ring terminal for grounding
- 3/8" (10mm) female snap ■ 1MΩ resistor

Part No.	Description	Size	Price
425-209	Common Point Ground Cord	6 ft.	\$5.45
425-210	Common Point Ground Cord	10 ft.	\$6.05
425-211	Common Point Ground Cord	15 ft.	\$6.95



DESCO

Common Point Ground for Wrist Straps/Bench Mats

■ 15 ft. cord ■ 1MΩ resistor snap

Provides grounding for up to two wrist straps as well as one bench mat. One end fits over the 3/8" (10 mm) female snap on bench mat, while the other end is terminated with a ring terminal for grounding.

Part No.	Model	Description	Price
126-182	09826	15' Ground Cord with Ring Terminal	\$14.15



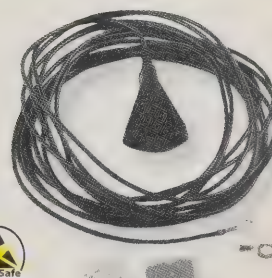
3M™

Wrist Strap/Table Mat Common Point Grounding System

■ 15 ft. cord ■ 1MΩ resistor snap

Provides a common grounding point for two wrist straps, table mats/runners. One end features a secure snap-on connection for table mats, plus two banana jacks for wrist straps. Other end is terminated with ring terminal.

Part No.	Model	Description	Price
126-501	3048	Wrist Strap/Table Mat Grounding System	\$17.20



BOTRON

Dual Wrist Strap Grounding System

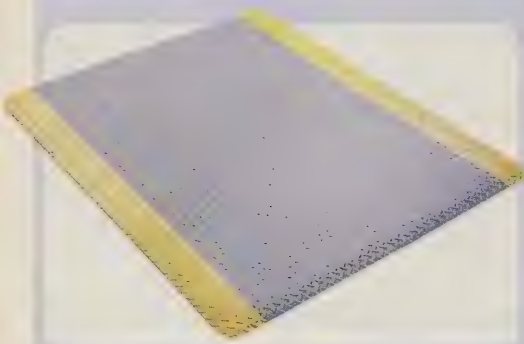
Provides grounding of two wrist straps using a common point to ground. Mounts easily under bench has two built-in banana jacks, two parking studs for cords when not in use. Comes complete with 10 ft. ground cord.

Part No.	Description	Price
180-433	Wrist Strap Grounding System	\$13.90



FLOOR MATS

DESCO 



Statfree® Type DPL Anti-Fatigue Static Dissipative Floor Mats

**Diamond-Plate Surface Provides
Safe Non-Slip Traction**

- 0.450" Thick
- Built-in tapered edges prevent tripping
- RTG 10⁸ ohms
- Meets ANSI/ESD S20.20 and EIA-625

Homogenous vinyl mat features a double-thick rubber foam base to reduce operator fatigue from standing, as it provides static protection. The top surface of the homogenous static dissipative mat features diamond plate texture for a non-slip safe surface, borders are yellow for high visibility and also alert employees to ESD controlled areas. Tapered edges are adopted from industrial safety applications. Mats include a ground snap and a 15 ft. ground cord with 1 Megohm resistor.

Part No.	Model	Description	Price
411-429	40975	Floor Mat, 3' x 4'	\$145.35
411-430	40976	Floor Mat, 3 ft. 5 ft.	\$181.70



Statfree® Static Dissipative Corrugated Vinyl Floor Mats

Rugged Corrugated Non-Slip Surface

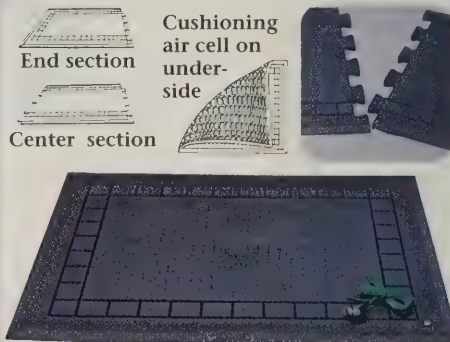
- 0.125" Thick
- Resists most chemicals and detergents
- RTG 10⁸ ohms

Floor mat is permanently static-dissipative, carbon free mat, preventing contamination and easily cleaned using antistatic cleaners. Comes complete with 15 ft. ground cord (09813) and 1 snap fastener kit (09864). Rolls do not include snaps and grounding cords.

Part No.	Model	Description	Price
126-222	16005	Floor Mat, 4' x 6'	\$125.50
126-223	16006	Floor Mat Roll, 4' x 40'	\$517.40
173-724	14234	Grounding Kit	\$15.55



**Heel and Shoe Grounders
Shown on Page 346**



Statfree® Conductive Anti-Fatigue Rubber Mats

**Interlocking for Custom Lengths or
Stand-Alone Mat**

- 0.50" thick
- Cushioning/anti-fatigue
- Beveled edges prevent tripping
- Heat and solvent resistant
- RTG 10³ - 10⁶ ohms
- Meets ANSI/ESD S20.20 and EIA-625

Build your own mat or runner using two types of sections. Center section (Part No. 127-032) and End section (Part No. 127-033). Conductivity is maintained automatically (up to 5 sections - 15 feet). Sections measures 28" x 36" and do not include ground cords or snaps for grounding. Order ground cord (Part No. 127-023) and ground snap kit (Part No. 127-029), recommend grounding every five sections. Part No. 127-031 stand-alone mat kit measures 28" x 36" and includes ground cord and snaps.

Part No.	Model	Description	Price
127-031	40910	Stand-Alone Mat Kit	\$72.65
127-032	40915	Center Section	\$72.65
127-033	40920	End Section	\$72.65
127-023	09814	Grounding Cord, 15'	\$14.15
127-029	09864	Universal Snap Kit	\$2.40



Static Dissipative Anti-Fatigue Rubber Floor Mat

**Reduces Fatigue
Resulting in More
Productivity**

- 0.500" Thick
- Smooth surface
- Beveled edges
- Surface resistance 10⁴ - 10⁷

Two layer mat (1/2" thick) provides a simple way to reduce fatigue while providing protection against static electricity damage. Conductive, smooth surface, rubber mat is bonded to a highly resilient combination vinyl and rubber sponge base that will stay in place. Comes with one installed ground snap and one 15 ft. ground cord.

Part No.	Model	Description	Price
407-015	9500	Rubber Floor Mat, 3' x 5'	\$195.60



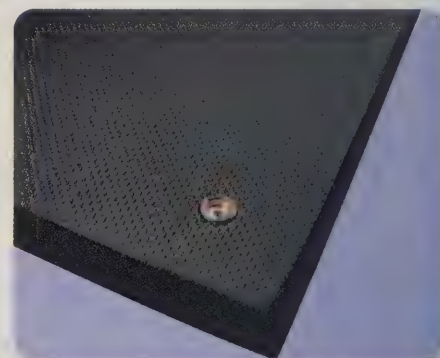
BOTRON Conductive Rubber Floor Mats

**Reduces Operator
Fatigue and Stress**

- 5/8" Thick
- Slightly textured surface
- Slip and soil resistant
- Beveled edges
- RTG 2x10⁵ -x<10⁶

Conductive sponge rubber mats are designed to reduce strain from standing on hard floors, while providing protection against ESD. Cut mats come with grounding cord and snap. Roll does not include snaps and grounding cords.

Part No.	Description	Price
423-350	Floor Mat Kit, 22" x 3'	\$141.10
423-351	Floor Mat Kit, 3' x 5'	\$182.05
423-352	Floor Mat Roll, 3' x 20'	\$969.00





DESCO



Statguard® Static Dissipative Floor Finish

**Stackable Box with
Convenient Faucet
Dispensing**

- clear, high gloss acrylic polymer

Floor finish eliminates the need for conductive tile or floor mats. Ideal for clean rooms and all electronics manufacturing, assembly and test areas. May be applied to vinyl, VCT, linoleum, rubber, asphalt and concrete. Prevent static charges generated by walking and dissipates a 5,000V static charge to zero in less than 0.01 sec per FTMS 101C, Method 4046 as cited in MIL-B-81705B. Easy-to-apply and dries in less than one hour. One gallon covers approximately 2,000 sq. feet.

Part No.	Model	Description	Price
418-289	10511	Statguard® Floor Finish 2.5 gal. Bag-In-Box	\$121.00
418-290	10512	Statguard® Floor Finish 5 gal. Bag-In-Box	\$233.65

Model 10511 & 10512 Specifications

Static Charge Generation:	Zero - per AATCC Step Test Method #134-1986. Static Resistivity: 10 ⁸ ohms/sq per ASTM D-257.
Static Dissipation:	In accord with DOD-HDBK-263.
Plasticizer Migration:	700 gm pull max. per CSMA Bulletin 70-69.
Accelerated Aging:	No visible change per ASTM D1791-82.
Slip Resistance:	UL Classified; friction exceeds ASTM D2047-82.

DESCO

Reztore™ Topical Antistat



Use On Dissipative and Non-ESD Surfaces

- Long lasting hard coat formula
- Non-toxic
- Static dissipative
- Removes contaminating particulate
- Keeps triboelectric charges below 200 Volts Per EIA 625

Use on a variety of surfaces especially surfaces used in static sensitive environments. Coating will allow charges to drain off when grounded. Surfaces include but not limited to: computer screens, rubber, vinyl and polyethylene table and floor mats, table tops, tote boxes, epoxy, painted surfaces, plexiglass, glass, metal, shelving, etc.

Part No.	Model	Description	Price
409-748	10415	Topical Antistat, 1 Quart Spray Bottle	\$11.05
418-299	10418	Topical Antistat, 2.5 Gallon Bag-in-Box	\$54.40



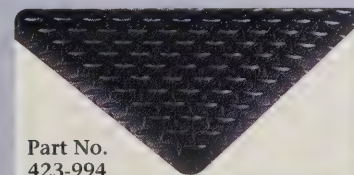
BOTRON

Anti-Fatigue Floor Mats

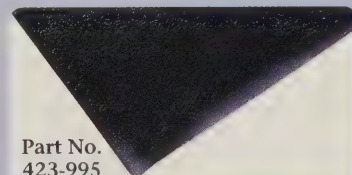
Textured or Smooth Surface

- RTT<10⁸

These black mats reduce fatigue while providing protection against static electricity damage. Features a vinyl surface with a foam rubber sponge base for cushioning and comfort. **Part No. 423-994** diamond plate surface (9/16" thick) offers a durable slip and soil resistant mat. **Part No. 423-995** offers a smooth easy to clean surface (1/2" thick). Both mats come complete with 10' ground cord.



Part No.
423-994



Part No.
423-995

Part No.	Description	Size	Price
423-994	Anti-Fatigue Diamond Plate Floor Mat	3' x 5'	\$187.80
423-995	Anti-Fatigue Smooth Surface Floor Mat	3' x 5'	\$155.45

Economy Floor Mat Ground Cord

New



**Ground Floor Mats, Runners
and Table Mats**

- Available in 6 ft., 10 ft. and 15 ft. lengths
- Molded dome cap reduces tripping
- Ring terminal for grounding
- 3/8" (10mm) female snap
- 1MΩ resistor



Part No.	Description	Size	Price
425-212	Ground Cord	6 ft.	\$5.15
425-213	Ground Cord	10 ft.	\$5.60
425-214	Ground Cord	15 ft.	\$6.70

3M™



Floor Mat Grounding Cord

- 15 ft. cord
- 1MΩ resistor snap

Grounds floor mats with preinstalled male snap fastener (10mm stud). Other end features a solderless loop terminal to connect to building ground.

Part No.	Model	Description	Price
126-495	3040-15	Grounding Cord	\$11.75



JENSEN®



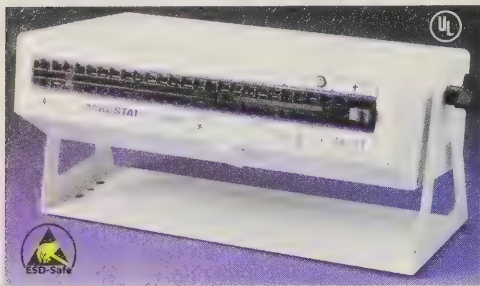
Dissipative Floor Mat

**Textured for
Added Safety**

- 3' x 5' gray vinyl mat
- 1/8" thick v-groove surface
- Includes 10' floor ground cord



Part No.	Description	Price
180-435	3 x 5' Dissipative Floor Mat	\$75.45



Aerostat® XC Ionizing Air Blower

Extended Coverage and Maintenance Free Operation

- Inherently balanced to 0 ± 5 V
- Patented built-in emitter point cleaner
- Integrated heater and 3-speed fan
- Emitter points never need replacing

Neutralizes static across an entire 3' x 6' bench top area featuring an integrated heater for operator comfort. Three speed fan delivers a controlled air volume of 70, 90, or 120 CFM. Measures 15-3/8" W x 4-1/2" H x 8-1/8" D and weighs 17.5 lbs.

Part No.	Model	Description	Price
126-572	4002612	Aerostat® XC Ionizing Air Blower	\$549.00



TOP Gun™ Ionizing Air Gun

Provides Powerful Ionized Air Stream

- Electronically balanced to 0 ± 15 V
- Operates on compressed air or nitrogen
- Adjustable airflow control (5 to 100 PSI)
- Requires shop air (10 to 100 psi)
- Emitter point never needs replacing

High-performance ionizing air gun for electronics manufacturing and cleanroom applications. Features a high blow-off force of up to 100 psi providing efficient cleaning and rapid static charge decay. Static dissipative gun body is lightweight with light-touch trigger. Control functions are built into the gun for easy operator use: airflow control, ion balance adjustment, and a two-level LED to indicate both power and ionization.

Part No.	Model	Description	Price
408-712	4005105	TOP Gun™ Ionizing Air Gun with 7ft. Cable	\$725.00
424-886	5050696	Replacement Air Filters & Nozzle Kit (2/Pkg.)	\$60.00

Aerostat® Guardian™ Overhead Ionizing Blower

- Inherently balanced to 0 ± 5 V
- Patented built-in emitter point cleaner
- Integrated heater and task lights
- Emitter points never need replacing

This ionizing mounts over your workstation and quickly neutralizes static charges over an entire work surface area, producing an air volume from 150 to 300 CFM. Equipped with task lighting, ionization indicator light and an integrated heater. Offers user-friendly operation while effectively protecting even the most sensitive components from ESD damage. Measures 42-3/4" L x 4" H x 6-3/4" D and weighs 16 lbs.

Part No.	Model	Description	Price
406-118	4004063	Overhead Ionizing Blower	\$875.00

Aerostat® PC™ Ionized Air Blower

Small, Quiet and Lightweight

- Inherently balanced to 0 ± 5 V
- Patented built-in emitter point cleaner
- Variable speed fan and integrated heater
- Emitter points never need replacing

Aerostat PC offers superior static charge decay over a targeted work surface area. Providing optimum protection from the destructive effects of ESD. Variable speed fan produces an air volume of from 35 to 70 CFM. Covers a 1' x 5' area, measures 5.5" W x 8.625" H x 3.25" D and weighs 5.3 lbs.

Part No.	Model	Description	Price
406-117	4003367	Ionizing Air Blower	\$459.00

TOP Gun™ Sidekick Ionizing Air Gun

Hands-Free Operation, Flexible Positioning

- Electronically balanced to 0 ± 15 V
- Operates on compressed air or nitrogen
- Adjustable airflow control (5 to 100 PSI)
- Emitter point never needs replacing
- Requires shop air (5 to 100 psi)

Sidekick offers a flexible gun neck to free the operator's hands during assembly and manufacturing processes. Foot pedal controls both ionization and airflow and the flexible gun mount allows the operator to focus the ionization airflow where it is needed. Includes a steel bracket for easy bench top mounting. Air flow: 2.4 cfm at 30 psi, 4.6 cfm at 60 psi, 6.0 cfm at 80 psi and 7.8 cfm at 100 psi. Operates on 120VAC (3-wire cord).

Part No.	Model	Description	Price
424-838	4006992	TOP Gun™ Sidekick Ionizier with 7ft. Cable	\$839.00
424-886	5050696	Replacement Air Filters & Nozzle Kit (2/Pkg.)	\$60.00

minION™ Small Ionizing Air Blower

Compact and Economical Design

- Self balancing ± 10 V
- Two speed fan

The minION™ incorporates steady state DC corona ion technology. Features active self-monitoring to ensure controlled, consistent ion output. Performance is enhanced by SIMCO patent-pending radial emitter pin array design with a six-emitter array configuration. Unique geometry and airflow control (17-34 CFM) provide true next generation performance. Covers a 1' x 4' area, measures 5-1/2" W x 6 3/8" H x 2 3/6" D and weighs 3.5 lbs.

Part No.	Model	Description	Price
418-127	4009018	Small Ionizing Air Blower	\$370.00
420-497	5051141	Optional Mounting Arm	\$115.00



SIMCO
An Illinois Tool Works Company

VSE 3000 Ionized-Air Blower

- Self-balancing for 0 \pm 5V balance
- Integrated heater & variable speed fan
- Removable emitter assembly for fast cleaning
- Emitter points never need replacing

This volume static eliminator is an efficient workstation ionizer which effectively eliminates electrostatic charges quickly and reliably. VSE 3000 produces an air volume of 80 to 160 CFM and floods the entire workstation (2' x 5' area) with static eliminating ions. Patented self-balancing circuitry maintains a balance of 0 \pm 5V and an individually controlled heater provides operator comfort. Measures 12" W x 6.25" H x 10" D and weighs 8 lbs.

Part No.	Model	Description	Price
127-275	VSE3000	Self-Balancing Ionized-Air Blower	\$485.00

3M



Ionized Air Gun

Compact and Lightweight

- Ergonomic design
- Self-balancing
- Maintains balance within \pm 30V
- Requires shop air (20 - 65 psi) or nitrogen
- Low-voltage power

Excellent tool for blowing particulate contamination off any surface. Releases a balanced stream of compressed ionized air that neutralizes the static charge that can hold particulates to a surface. Discharge time from \pm 1000V to 100V is less than 0.5 seconds at 6". The lightweight (12 ounces) ergonomic gun offers a flexible air hose providing ease of use. Features a disposable filter which collects particles from the air supply and is easily replaced. Unit includes a transformer, control module, 7 ft. flexible air hose and an ergonomic blow-off gun hand piece.

Part No.	Model	Description	Price
413-318	980	Ionized Air Gun	\$809.50

3M



Ionized Air Blower

- Self balancing: \pm 15V
- Static-dissipative plastic housing
- Adjustable stand for universal mounting
- High and low speed settings

This two speed fan (extremely quiet at low speed) has an effective neutralization field of 2 ft. x 4 ft. Discharge from 1000V to 100V in <1 sec. at 1 ft. No adjustment or calibration is required to maintain ion balance. Measures only 6" W x 7.4" H x 3" D, weighs 2.5 lbs. Operates on 120VAC with 6 ft. cord and has a 1-year warranty.

Part No.	Model	Description	Price
191-980	963	Ionized Air Blower	\$398.85

3M



Point-of-use Ionizing Blower

- Self balancing: \pm 20V
- Compact size: 4.5" x 3.3" x 2"
- UL listed

Reduces a static charge of 1000V to 100V in <4 seconds at a distance of 1 ft. Airflow volume is 22 cfm at 1 ft. in front of the grill. No adjustment or calibration is required to maintain ion balance. A plug-in transformer, Model 960X, (not included) is needed to power the ionizer. Plug-in transformer operates on 120VAC, 50/60Hz. Ionizer comes with a modular phone cable with RJ-11 connectors at both ends that plugs into the transformer.

Part No.	Model	Description	Price
413-317	960	Mini Air Ionizer	\$360.95
416-861	960X	Plug-In Transformer	\$42.00



DESCO

Bench Top Ionizer

- Self balancing: \pm 5V
- Non-nuclear
- Built-in heater
- Effective area of neutralization 18" x 4 ft.
- ETL listed

This ionizer offers a patented faraday balance system to assure perfect ion balance automatically. Ions are emitted in true laminar flow to reduce ion recombination and emitter contamination. Measures 11" x 9" x 7" offers a variable-speed fan (117 cfm), preset heater with on/off switch. Feature a swivel mountable base, operates on 120VAC (3-wire cord) and comes complete with emitter brush for easy cleaning, 1 year warranty and a Certificate of Calibration.

Part No.	Model	Description	Price
126-293	19500	Bench Top Ionizer	\$689.05

DESCO

Ion Python Hand Gun

- Non-Nuclear
- Requires shop air (5 - 80 psi)

This ionizing air gun neutralizes charges on non-conductive surfaces by generating a flow of positive and negative ions. Non-conductive surfaces (plastics, etc.) can't be drained of static charges in other ways. Handpiece is lightweight and ergonomically designed to comfortably fit in any size hand. Airflow can be adjusted at the control box needle valve. Air hose is 7 ft. long for added reach. Operates on 115VAC (3-wire cord), measures 5-1/8" x 6-3/8" x 7-1/8", weighs 11 lbs., comes with a 1 year warranty and a Certificate of Calibration.

Part No.	Model	Description	Price
412-336	19587	Ionizing Air Gun	\$875.00

STATIC METERS



3M™ Test Kit

Everything Needed to Test Static Control Surfaces

■ Certificate of Calibration ■ Traceable to NIST

Kit meets ANSI/ESD Standard 4.1 work surfaces-resistive characterization and ANSI/ESD standard 7.1, floor materials-resistive characterization of materials and MIL-PRF-87893 workstation, ESD control for auditing purposes. Features separate scales and settings to measuring surface-to-ground and surface-to-surface resistance at two test voltages (10V and 100V), system continuity and the open circuit test voltage. Kit contains: megohmmeter, (2) 5 lb. test weights, (2) 10-ft. test leads, insulated bulldog clip, alligator clip, continuity test plate, (2) batteries 22.5 V and 1.5 V, manual, cert. of calibration and a lightweight foam lined carrying case.

Part No.	Model	Description	Price
130-188	701CERT	Test Kit with Certificate of Calibration	\$783.05



DESCO Surface Resistance Test Kit

Measures Resistance and Resistivity, plus Temperature and Humidity

- Test ESD work surfaces, floor, footwear, garments, seating and workstations
- Resistance range: $<1.0 \times 10^3$ - 10^{12} ohms
- Test voltage ranges: 10 and 100 volts $\pm 3\%$

This kit is designed to measure resistance between two points (RTT), surface to ground (RTG), and surface resistivity in accordance with ANSI/EOS/ESD S4.1 and S7.1. The display is an easy-to-read LCD and light emitting diodes (LED's) illuminates exponent numbers and functions. Kit comes complete with protective carrying case, two 5 lb. electrodes, set of test leads, Certificate of Calibration and 2 AA alkaline batteries. To measure resistivity optional resistivity parallel attachment with electrodes (Part No. 420-073) is required.

Part No.	Model	Description	Price
418-383	19780	Surface Resistance Test Kit	\$1,080.00
418-421	19781	Meter (only)	\$1,138.10
420-073	19782	Optional Resistivity Attachment	\$90.85

ACL Staticide® Static-Charge Meter

Measures Static Charges Up To 30,000 Volts

Hand held meter measures presence intensity and polarity of electrostatic charges up to 30,000 volts (accuracy $\pm 10\%$). Features two ranges for accurate measurements of 0-500V at 0.5", 0-3000V at 4", and 0-5000V at 0.5", 0-30,000V at 4". A "zero-switch" function instantly re-zeroes the instrument for repetitive measurements. Comes complete with battery and 1-year warranty. Measures 4-3/8" x 2-5/8" x 1-5/16", weighs 5 oz., and comes with a Certificate of Calibration.

Part No.	Model	Description	Price
122-573	300B	Static Meter	\$391.80
123-489	CS13	Protective Carrying Case	\$24.65

ACL Staticide® Surface Resistivity Meter

Easy To Use

- Wide range: 10^3 to $>10^{12}$ ohms in ten steps
- Surface resistivity ranges 10^3 to 10^{12} ohms/square
- RTG 10^3 to 10^{12} ohms
- Accuracy: $\pm 5\%$ ■ Traceable to NIST

Meter offers simple repeatable measurements of conductive, static-dissipative, and insulative surfaces by utilizing the ASTM standard D-257 parallel-bar sensing. Easy to use; place meter on surface being tested press the test-button and hold. The LED that illuminates constantly is the decade measured. Meter measures 5" x 3" x 1", and comes complete with 9V battery, ground jack, carrying case, instructions, Certificate of Calibration and 1-year warranty.

Part No.	Model	Description	Price
403-744	385	Resistivity Meter	\$370.75



ACL Staticide® Digital Static Locator

Conductive Housing Eliminates Need For Grounding

- 3-1/2" LCD display
- Measures up to 20,000 volts
- Accuracy $\pm 10\%$.
- One inch measurement spacer-built-in
- Traceable to NIST

This non-contact meter indicates electrostatic field voltage and polarity on charged surfaces. Built-in one inch spacer for accurate and repeatable measurements to ensure meter is at the proper measurement distance. Comes with 9V battery, leather carrying case, instructions Certificate of Calibration and one year warranty. Measures 4.2" x 2.4" x 0.9", weighs only 5 oz.

Part No.	Model	Description	Price
408-670	350	Digital Static Locator	\$535.60



BOTRON

New

ESD Auditing Test Kit

Heavy Duty, Reliable and Quick Testing

- Test to NFPA77 ■ Accuracy ($\pm 4\%$ gegoHm)
- Analog 100G/100v, 200G/500v
- Digital 20G/100V
- Test at 10v, 100v & 500volts ■ Auto shut off

Test kit comes with all the components needed to test surfaces for static control accurately and effortless. Meter offers a digital or analog read out with a large easy to read display. Test up to 200GegoHm/500v. Comes complete with meter, two (5) lb. weights, foam filled case and warranty. Operates on (6) AA batteries not included.

Part No.	Description	Price
427-787	Auditing Test Kit	\$1,150.00
473-002	AA Alkaline Battery	\$0.94





TECHSPRAY

LICRON™ Permanent Static-Dissipative Coating

Durable, Will Not Chip

- Translucent coating
- Operates from 0-100% humidity

This coating provides permanently static-dissipative protection with a surface resistivity of 10^6 - 10^8 ohms/sq. Coats metal, plastics and paints and other clean dry surface requiring a translucent coating to protect from static. For full cure, allow to dry for 24 hours at room temperature (78°F). Accelerate cure in a 120°F - 140°F oven for 4-6 hours.



Part No.	Model	Description	Price
413-720	1755-10S	10 oz. Aerosol	\$37.60

ACL Staticide



Waste Basket shown with Optional Liner

Static Dissipative White Waste Basket

- 11 gallon capacity
- Optional anti-static liners

Constructed from high density white polyethylene and does not contain carbon, dyes or additives. Surface resistivity 10^8 - 10^{12} ohms. Measures 16" diameter x 22" high. Optional anti-static liners are made from black anti-static polyethylene. Liners measures 24" x 36" and come 50 liners per package.

Part No.	Model	Description	Price
412-359	5075	ESD Static Dissipative Waste Basket	\$42.00
412-360	5076	Waste Basket Liners (50/Pkg.)	\$17.55



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.

B BOTRON

Static Dissipative Protectors

- Sheet protectors
- Shop travelers
- Drawing holders

Protect paper work, documents, specs and instructions in static controlled areas without the risk of generated static.

Part No.	Description	Size	Thickness	Price
140-606	Sheet Protectors, 100/Pkg	8.5" x 11"	3 mil	\$61.00
420-284	Sheet Protectors, 25/Pkg	8.5" x 11"	6 mil	\$34.60
425-255	Shop Travelers, 25/Pkg	8.5" x 11"	6 mil	\$40.10
428-914	Drawing Holder, 25/Pkg	11" x 17"	6 mil	\$75.10



B BOTRON

Hook & Loop Straps

- Non-conductive (2 sizes available)
- Conductive (2 sizes available)

Part No.	Description	Size	Price
140-331	Non-conductive Strap	1" x 20"	\$1.50
425-279	Non-conductive Strap	1" x 24"	\$1.70
427-589	Conductive Strap	1" x 23"	\$1.70
428-123	Conductive Strap	1" x 30"	\$2.15

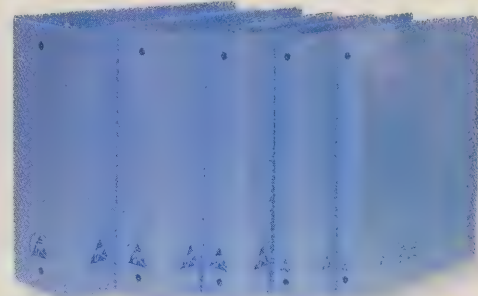
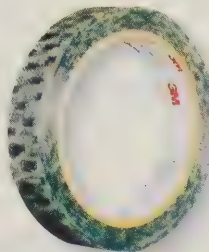
3M™ Antistatic Tape

Suppresses Static During Unwind from Roll and Removal from Surfaces

- Printed with 3M logo & ESD symbols
- Fits 3" core dispensers

Designed with 3M's unique conductive polymer adhesive. Generates less than 50 volts on unwind from the roll or removal from a stainless steel surface. Rolls available in 4 widths x 72 yards in length.

Part No.	Model	Size	Price
416-267	40PR-1/2	1/2"	\$13.00
416-266	40PR-3/4	3/4"	\$19.20
143-439	40PR-1	1"	\$24.90
417-300	40PR-2	2"	\$41.70



DESCO

Static-Safe 3-Ring Binders

- Meets MIL-B-81075 Type II

Standard three-ring binder's are made with 16 mil blue, static-dissipative vinyl to prevent paper-generated static contamination. Surface resistivity is 10^{11} ohms/sq. Sheet protectors Part No. 126-936 will hold 8-1/2" x 11" documents, 3 mil thick, amine-free, clear, static-protective polyethylene.

Part No.	Model	Description	Price
126-929	07405	1/2" Dissipative Binder	\$13.40
127-087	07410	1" Dissipative Binder	\$14.10
126-932	07412	1-1/2" Dissipative Binder	\$14.75
126-933	07415	2" Dissipative Binder	\$17.50
126-934	07420	3" Dissipative Binder	\$27.20
126-936	07450	Sheet Protectors, 25/Pkg	\$18.00

DESCO

Static-Safe Shop Travelers

Allows documents and instructions to be viewed in static controlled areas without the risk of paper-generated static contamination. Shop travelers measure 12" x 10" for 8-1/2" x 11" sheets. Made from clear, 3 mil, amine-free, static-protective polyethylene.

Part No.	Description	Price
126-938	Static-Safe Shop Travelers, 25/Pkg	\$29.00



B BOTRON ESD-Safe Clip Board

Blue static dissipative vinyl clip board, 9" x 12" with ESD-safe symbol

Part No.	Description	Price
426-694	ESD-Safe Clip Board	\$17.10





Part No. 420-464 Part No. 420-820 Part No. 420-228 Part No. 420-456



Static-Awareness Labels

Use with Bags, Boxes and Totes

Attention labels are used on devices to indicate that it is susceptible to an electrostatic charge. Destructive type labels are tamper evident allowing you easy monitoring and protection of unopened bags, boxes or totes.

Part No.	Description	Size	Reusable	Quantity	Price
421-301	Labels (Mil-Std 129)	5/8" x 2"	No	500/Roll	\$8.80
420-464	Labels (Mil-Std 129)	2" x 2"	No	500/Roll	\$13.80
420-822	Labels (Mil-Std 129)	4" x 4"	No	250/Roll	\$13.85
420-456	Labels Write-On (JEDC-14)	1-3/4" x 2-1/2"	No	500/Roll	\$12.90
420-228	Labels (JEDC-14)	1-3/4" x 2-1/2"	Yes	500/Roll	\$16.20
417-303	Labels	5/8" x 2"	No	500/Roll	\$8.80
420-463	Labels	2" x 2"	Yes	500/Roll	\$11.95
420-820	Labels	2" x 2"	No	500/Roll	\$10.00
420-821	Labels	4" x 4"	No	250/Roll	\$13.85



Caution Awareness Signs and Posters

Announce ESD-Safe protected areas to visitors and personal prior to entering. Part No. 425-387 double sided hanging sign with two holes to hang. Part No. 425-388 awareness poster offers a self-sticking back side.

Part No. 425-387 Part No. 425-388

Part No.	Description	Size	Price
425-387	Hanging Sign, Pkg/3	10" x 20"	\$39.85
425-388	Self-Sticking Poster, Pkg/5	11" x 17"	\$14.95



Part No. 429-567



Part No. 427-765

Static Sensitive Area Warning Signs

Highly Visible For Static-Safety Precautions

- Work area or bench front signs
- Easy to clean plastic
- Self adhesive back

Part No.	Description	Size	Price
429-567	Bench Sign, 10/Pkg.	1" x 6"	\$11.95
427-765	Work Area Sign, 10/Pkg.	4" x 10"	\$37.50



Part No. 424-845

Part No. 127-236

ESD-Safe Tape Dispensers

- Accepts 3" core rolls

Constructed from solid metal and non-static generating powdered coat paint finish with a non-slip conductive rubber base. Part No. 142-163 holds two tape rolls 1" wide. Part No. 424-843 holds three tape rolls 1" wide.

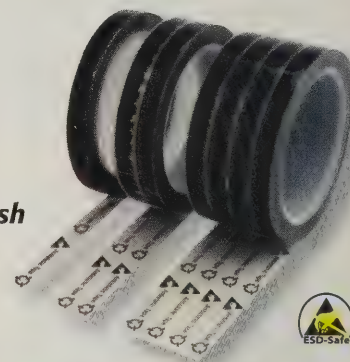


Part No.	Description	Price
142-163	Two Roll Tape Dispenser	\$46.90
424-843	Three Roll Tape Dispenser	\$56.50

Anti-Static Tape

Printed Symbols to Distinguish From Regular Tapes

- Fits 3" core dispensers
- 72 yards rolls
- Generates <250V
- Material: Transparent cellulose, 2 mils thick



Part No.	Size	Price
424-832	1/2"	\$5.00
424-833	3/4"	\$6.90
424-834	1"	\$9.10
424-835	2"	\$16.60

Warning Tape for Static Sensitive Areas

Adheres Easily to Walls and Floors

- Aisle marking
- Scuff resistant

This durable vinyl over-layer tape will last the abuse of high traffic areas. Offering a high visibility yellow with black caution and awareness symbols repeated every twelve inch intervals. Available in 3" x 54 ft. or 3" x 108 ft. rolls and choice of two symbols.

Part No.	Description	Size	Price
424-845	Warning Tape with Arc Symbol	3" x 54 ft.	\$23.95
424-846	Warning Tape with Arc Symbol	3" x 108 ft.	\$44.55
127-236	Warning Tape with Three Arrows	3" x 54 ft.	\$23.95
424-844	Warning Tape with Three Arrows	3" x 108 ft.	\$44.55



DESCO

STATIC PROTECTION



REZTORE™ ESD Hand Lotion

- Non-contaminating
- Improves wrist strap contact

This antistatic moisturizing hand lotion can be used to enhance the effectiveness of ESD control wrist straps, particularly for individuals with dry skin. Absorbs immediately into skin without interfering with grip or dexterity. Lotion features a mild scent and is free of chemicals that may affect solderability or cause corrosion to electronic components.



Part No.	Model	Description	Price
418-186	81080	8 oz. Squeeze Bottle	\$3.95
423-202	81082	1 Qt. Pump Bottle	\$12.10
418-380	81081	1 Gal. Bottle with Pump	\$32.45

Wescorp Conductive Shielding Grid Tape

For Applications Requiring EMI Shielding

- Conductive grid layer 10^4 to 10^5 at 50% RH
- Max temperature 60° C (140° F)
- Non-corrosive

Use to cover external plugs, holes or connector pins secure black boxes during transportation and storage. When using grounded tape dispensers, voltage generated by unrolling will effectively be reduced to zero. Rolls equal 118 ft. (36m) long and fit 3" core dispenser.



Part No.	Size	Price
412-334	1/2"	\$3.40
160-403	3/4"	\$5.05
162-026	1"	\$6.75
141-304	2"	\$11.00

ATTENTION

TEST STATIC GROUND DEVICES HERE

TEST YOUR FOOT GROUND AND WRIST STRAP OFTEN

FOOT GROUND TEST
1. GET HOOKER SWITCH TO "FOOTPLATE"
2. STEP ON BASE PLATE WITH ONE FOOT ONLY
3. PRESS AND HOLD THE TEST BUTTON FOR 25 SECONDS
4. A GREEN LIGHT INDICATES A "GOOD" TEST
5. REPEAT THE TEST WITH THE OTHER FOOT

WRIST STRAP TEST
1. GET HOOKER SWITCH TO "WRIST CORD"
2. PLUG GROUND CORD INTO WRIST CORD JACK
3. PRESS AND HOLD THE TEST BUTTON FOR 25 SECONDS
4. A GREEN LIGHT INDICATES A "GOOD" TEST

Part No. 162-424

ATTENTION

ESD CONTROL AREA

WEAR GROUNDING DEVICES AT ALL TIMES

THIS AREA CONTAINS SENSITIVE ELECTRONIC DEVICES

Part No. 162-425



ATTENTION

OBSERVE PRECAUTIONS

ELECTROSTATIC SENSITIVE DEVICES

Part No. 151-169

Attention Posters and Signs



ATTENTION
STATIC SAFEGUARDED WORK AREA

Part No. 151-076

Communication Tools to Improve ESD Program Compliance

- Available in English or Spanish

Part No.	Model	Description	Size	Price
162-424	06741	English Foot/Wrist Ground Tester Sign, 5/Pkg	17" x 22"	\$27.25
162-425	06742	English Area Warning Sign, 5/Pkg	17" x 22"	\$27.25
425-389	06740	Spanish Area Warning Sign, 5/Pkg	17" x 22"	\$27.25
151-169	06748	English Attention Sign (RS-471)	4" x 10"	\$3.65
140-535	06749	Spanish Attention Sign (RS-471)	4" x 10"	\$3.65
151-076	06751	English Bench Sign	1" x 6"	\$1.25
425-390	06752	Spanish Bench Sign	1" x 6"	\$1.90



Wescorp Anti-Static Tape

- Meets MIL-B-81705

Permanent clear anti-static pressure sensitive tape will not generate static electricity. Rolls are 72 yards long and fit a 3" core dispenser.



Part No.	Size	Price
407-112	1/2"	\$2.30
407-113	3/4"	\$3.55
407-114	1"	\$4.50
407-115	2"	\$9.00

Wescorp Anti-Static Clear Tape with Printed Symbols

- Meets MIL-B-81705
- Non-staining rubber based adhesive
- Charge decay <0.1 second

Permanent anti-static pressure sensitive tape will not generate static electricity. Rolls are 72 yards long and fit a 3" core dispenser. Black symbols MIL-129 and RS-471 symbols are printed on the tape at 4 inch intervals to distinguish from regular tape.



Part No.	Model	Size	Price
409-940	81210	3/4"	\$6.85
409-941	81211	1"	\$9.00
412-307	81212	2"	\$17.40

Conductive Tape Dispenser

Heavy Cast Iron For Stability

- Designed for use in ESD protected areas
- Accepts 3" core tapes

Constructed of heavy cast iron for stability. Accepts tapes up to 2" wide. Comes complete with a 10-ft grounding cord with a bulldog clip. Measures 8" x 3-1/2" x 4-1/2".



Part No.	Description	Price
407-089	Conductive Tape Dispenser	\$70.95

Static Awareness Labels

Warn Personnel Contents Are Static Sensitive

- Spanish version part no. 143-564

Labels can be attached to bags, boxes or any other carrier to warn personnel that the contents are static sensitive. Labels are a highly visible bright yellow with accepted static symbol RS471.

ATTENTION



OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

Part No.	Model	Description	Size	Reusable	Price
401-952	06722	English Label, 500/Roll	2" x 2"	No	\$10.65
126-113	06730	English Label, 500/Roll	2" x 2"	Yes	\$10.70
143-564	06723	Spanish Label, 500/Roll	2" x 2"	No	\$11.05



Transparent Metal-In Static-Shielding Bags

- 3.1 mil thickness
- Meets MIL-PRF-81705D Type III, EIA 625, MIL-HDBK-263, MIL-STD-1686, and EOS/ESD Standards

Metalized static shielding bags provide a static safe environment for sensitive electronic devices. Outside layer is constructed of a static dissipative polyester with a surface resistivity of $10^9 - 10^{11}$ ohms sq. Middle metalized layer prevents the penetration of electrostatic. Inside layer constructed of static dissipative polyethylene to minimize tribocharging with a surface resistivity of $10^9 - 10^{11}$ ohms sq. Bags are heat sealable, (250°F - 375°F in 0.5 - 3.5 seconds). 100 per package.

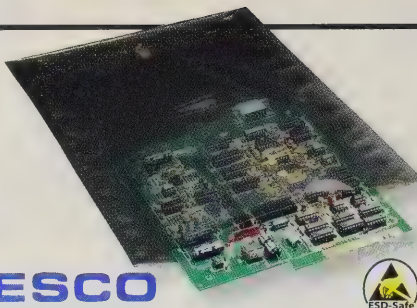
Part No.	Model	Size (W x L)	Price/100
408-154	10035	3" x 5"	\$4.60
408-155	10046	4" x 6"	\$5.05
175-950	10058	5" x 8"	\$8.35
175-665	10068	6" x 8"	\$8.80
408-157	100610	6" x 10"	\$10.05
175-666	100810	8" x 10"	\$14.40
408-160	100812	8" x 12"	\$16.60
175-660	1001012	10" x 12"	\$19.15
175-661	1001014	10" x 14"	\$22.80
175-952	1001115	11" x 15"	\$28.15
408-161	1001215	12" x 15"	\$30.45
408-162	1001218	12" x 18"	\$35.05
412-330	1001518	15" x 18"	\$44.85
175-664	1001818	18" x 18"	\$52.15
408-164	1001824	18" x 24"	\$69.75



ZipTop™ Transparent Metal-In Static-Shielding Bags

These bags feature a ZipTop™ dual track, antistatic, amine-free zipper material to create a lockable faraday cage. Bags offer the same specs. as the 10035 - 1001824 series above.

Part No.	Model	Size (W x L)	Price/100
175-653	30035	3" x 5"	\$7.50
418-220	30046	4" x 6"	\$9.80
175-654	30058	5" x 8"	\$14.25
175-655	30068	6" x 8"	\$15.25
180-461	300810	8" x 10"	\$24.25
175-670	3001012	10" x 12"	\$32.40
418-204	3001014	10" x 14"	\$36.20
413-425	3001216	12" x 16"	\$46.85
175-652	3001818	18" x 18"	\$67.90
413-599	3001824	18" x 24"	\$93.70



DESCO Statshield® Transparent Metal-In Static-Shielding Bags

- 3.0 mil Thickness
- Entire bag meets MIL-M-38510, MIL-HDBK-773
- Antistatic layer meets MIL-B-81705C, FTM4046
- Amine-free

Transparent static-shielding bag protects components from ESD damage. The metal middle layer allows a 5000 volt charge to dissipate to 0 volts in 50 microseconds. The inner antistatic polyethylene layer prevents static charges from generating inside the bag (less than 10^{11} ohms/sq). The outer layer is a tough, antistatic (10^{11} ohms/sq) polyester, providing the highest level of abrasion and puncture resistance available. Bags are heat sealable.

Part No.	Model	Size (W x L)	Price/100
126-146	13415	4" x 6"	\$5.70
126-148	13425	4" x 30"	\$23.60
126-149	13430	5" x 8"	\$9.45
126-152	13460	8" x 10"	\$16.30
126-153	13465	8" x 12"	\$18.75
126-154	13470	10" x 12"	\$21.65
126-155	13475	10" x 14"	\$26.15
126-158	13500	12" x 16"	\$34.40
126-160	13515	15" x 18"	\$38.85
126-161	13520	18" x 18"	\$58.90
126-162	13524	18" x 24"	\$78.70

DESCO Statshield® Transparent Metal-In Static-Shielding Zip-Bags

Zip-Bags feature the same specifications as the 13415-13524 series above.

Part No.	Model	Size (W x L)	Price/100
126-164	13605	3" x 5"	\$8.55
126-165	13615	4" x 6"	\$11.25
126-166	13630	5" x 8"	\$16.40
126-169	13660	8" x 10"	\$27.40
126-170	13665	8" x 12"	\$29.67
126-171	13670	10" x 12"	\$37.10
126-172	13675	10" x 14"	\$40.90
126-174	13700	12" x 16"	\$53.60
126-179	13725	18" x 24"	\$103.58

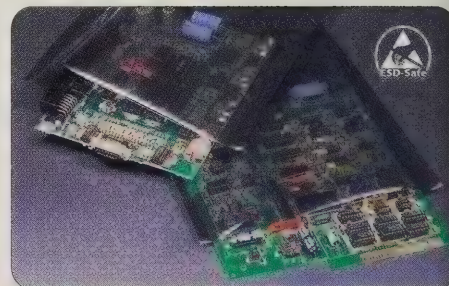


PROTEKTIVE PAK Transparent Metal-In Static-Shielding Bags

- Economical
- 3.0 mil Thickness
- Contamination-free: No amines or outgassing

Outer layer is constructed of static-dissipative polyester. Middle metal layer has a surface resistivity of less than 10^2 ohms/sq. to shield against static charges. Static-dissipative polyethylene inner layer prevents tribo-electric charging.

Part No.	Size (W x L)	Price/100
417-330	3" x 5"	\$4.70
417-332	4" x 6"	\$5.20
417-333	5" x 8"	\$8.95
417-334	6" x 8"	\$8.80
417-335	6" x 10"	\$9.90
423-560	6" x 14"	\$15.00
417-336	8" x 10"	\$14.10
417-337	8" x 12"	\$16.20
417-338	10" x 12"	\$18.70
417-339	10" x 14"	\$22.20
422-706	12" x 18"	\$34.50



3M™ Metal-In Transparent Static-Shielding Bags

- 2.9 mil Thickness
- Contamination-free: No amines or outgassing

Provides shielding from ESD by safely enveloping static-sensitive devices and boards in a humidity-independent faraday cage. Interior has a surface resistivity of 10^{10} ohms. Aluminum shielding layer create faraday type shield (10^2 ohms/sq.) Shielding layer is bonded between a topically coated static-dissipative polyester layer and a topically coated static-dissipative polyethylene layer. Bags are heat sealable and are unaffected by humidity, age and most chemicals.

Part No.	Model	Size (W x L)	Price/100
126-248	19000305	3" x 5"	\$7.20
126-250	19000406	4" x 6"	\$8.40
126-254	19000508	5" x 8"	\$11.40
126-257	19000610	6" x 10"	\$15.35
126-260	19000810	8" x 10"	\$18.95
126-262	19001012	10" x 12"	\$24.25
126-269	19001218	12" x 18"	\$45.15



Dri-Shield 2000 Static-Shielding Moisture Barrier Bags

- 3.6 mil thickness
- Puncture resistance 20 lbs.
- Heat sealable
- Moisture vapor transmission rate <.02 (per ASTM F1249)
- Meets EIA 583, EIA 541, EIA625, and MIL-PRF-81705, Type 1

Barrier bags are designed from multiple layers of metallized polyester and dissipative polyethylene. In addition to moisture protection these bags are designed to protect from ESD static fields and tribocharging. 100 bags per package.

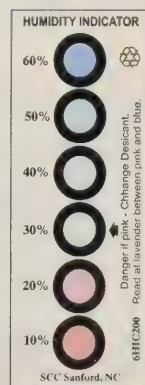
Part No.	Model	Size (W x L)	Price
420-015	70035	3" x 5"	\$7.30
420-016	70046	4" x 6"	\$8.55
420-017	700424	4" x 24"	\$26.45
420-018	700530	5" x 30"	\$37.70
420-019	70068	6" x 8"	\$15.20
420-020	700610	6" x 10"	\$15.90
420-021	700624	6" x 24"	\$36.50
420-022	700630	6" x 30"	\$44.55
420-023	700810	8" x 10"	\$25.40
420-024	700812	8" x 12"	\$26.45
420-025	7001012	10" x 12"	\$29.25
420-026	7001020	10" x 20"	\$46.75
420-027	7001024	10" x 24"	\$55.70
420-028	7001030	10" x 30"	\$68.30
420-029	7001216	12" x 16"	\$45.10
420-030	7001218	12" x 18"	\$49.95
420-031	7001430	14" x 30"	\$92.75
420-032	7001518	15" x 18"	\$61.15
420-033	7001618	16" x 18"	\$64.85
420-034	7001719	17" x 19"	\$72.70
420-035	7001818	18" x 18"	\$72.55
420-036	7001824	18" x 24"	\$94.80



Humidity Indicator Cards

Cards are printed with moisture sensitive spots which respond to various levels of humidity with visible color change. Part No. 417-304 monitors levels from 10% - 60% and measures 1.56" x 4.75", 200 cards per canister. Part No. 420-498 monitors 10% - 40% and measures 2" x 3", 100 cards per canister.

Part No.	Description	Price
417-304	6-Spot Humidity Indicator Cards	\$58.00
420-498	4-Spot Humidity Indicator Cards	\$19.75



Dri-Shield 2700 Static-Shielding Moisture Barrier Bags

Withstands the Harshest Vacuum Packaging Applications

- 7 mil thickness
- Puncture resistance 35 lbs.
- Heat sealable
- Moisture vapor transmission rate <.005 (per ASTM F1249)
- Meets EIA 583, EIA 541, EIA625, and MIL-PRF-81705, Type 1

Bags are designed from multiple layers of metallized polyester and dissipative polyethylene. Flexible structure is easy to vacuum seal. Providing a puncture resistance and moisture barrier dry package. Ideal for packaging tubes, trays, reels and electronic devices. In addition to moisture protection these bags are designed to protect from ESD static fields and tribocharging. 100 bags per package.

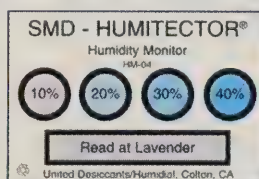
Part No.	Model	Size (W x L)	Price
420-038	D2746	4" x 6"	\$13.50
420-042	D271012	10" x 12"	\$46.25
420-043	D271020	10" x 20"	\$80.15
420-045	D271030	10" x 30"	\$107.35
420-046	D2710.518	10.5" x 18"	\$76.50
420-047	D271216	12" x 16"	\$72.95
420-048	D271518	15" x 18"	\$99.15
420-049	D271618	16" x 18"	\$103.30

DESCO Moisture Protection Desiccant and Humidity Indicator

- Desiccant packs meet requirements of MIL-D-3464
- Humidity Indicator cards meet requirements of MIL-I-8835

Desiccant are used to absorb moisture. Indicator card monitors performance of relative humidity.

Part No.	Model	Description	Size	Price
418-506	13850	Desiccant Pack, 1/2 Unit Pail/550	3" x 3.5"	\$83.15
418-507	13852	Desiccant Pack, 1 Unit Pail/300	5" x 3.5"	\$60.90
418-508	13870	Humidity Indicator Card, Can/100	2" x 3"	\$22.16



PROTEKTIVE PAK

RICHMOND 3750 Dry Pack Moisture Barrier Bags

- Static-shielding
- 6.2 mil Thickness
- Puncture resistance (>20 lbs.)
- Heat sealable
- WVTR (0.0003) meets requirement of JSTD-033

Outer layer of static-dissipative nylon is noted for its strength and durability. Middle layer of aluminum assures maximum moisture barrier protection, and the inner layer of static-dissipative polyethylene eliminates the possibility of tribo-electric charging inside the bag.

Part No.	Model	Size (W x L)	Price
421-293	49000	10" x 20"	\$83.30
421-296	49001	10" x 30"	\$115.50
421-790	49002	16" x 18"	\$109.90



PROTEKTIVE PAK

Pink Poly Bags

Transparent and Static Dissipative

- Reduce tribocharging
- 4 mil thick
- Surface resistivity $10^{10} - 10^{12}$ ohms

Designed to package non static sensitive items (i.e. wire, nuts, bolts, plastic housings) and other production essential materials. 100 bags per package.

Part No.	Size (W x L)	Price/Each
423-224	2" x 3"	\$2.60
423-225	3" x 4"	\$3.10
423-227	4" x 6"	\$4.50
423-229	5" x 8"	\$7.70
423-231	6" x 9"	\$6.90
423-232	6" x 10"	\$7.90
423-233	8" x 10"	\$10.40
423-234	8" x 12"	\$10.90
423-235	10" x 12"	\$11.40
423-242	18" x 20"	\$36.70
423-243	18" x 24"	\$43.50

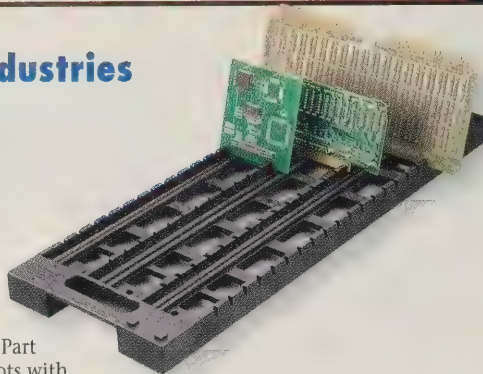


Fancort Industries

Conductive PCB Holders

- Carrying handles & drainage holes
- Stackable

Constructed from rugged injection molded reinforced polypropylene. Part No. 420-852 features 20 slots with easy to load angle (.125" x .325" on a 1.000" pitch) and tolerates up to 225°F. Part No. 120-371 & 120-374 features 20 slots with easy to load angle, (.125" x .325 on a .750" pitch) and tolerates up to 185°F.



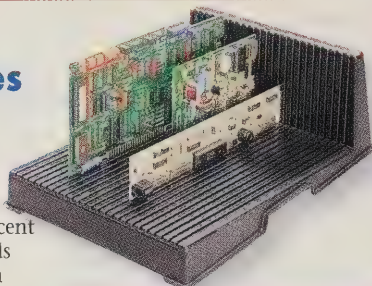
Part No.	Description	Size	Color	Price
420-852	Conductive PCB Holder	23" x 8-1/2"	Black	\$19.95
120-371	Conductive PCB Holder	20" x 7"	Black	\$17.00
120-374	Non-Conductive PCB Holder	20" x 7"	Red	\$14.10



Fancort Industries

Conductive Double Support PCB Racks

Supports PC boards along two adjacent sides for better handling stability. Holds up to 25 boards in standard grooves on 0.400" pitch, 0.100" wide and 0.200" deep. Racks feature drainage holes and are compatible with most solvents.



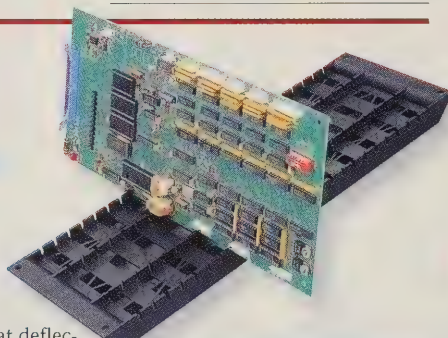
Part No.	Size LWH	Price
120-367	14" x 10" x 5"	\$22.45



Fancort Industries

Rack-All Conductive PC Board Holders

These board holders offer a heat deflection of 185°F and feature 25 slots measuring 1/8" wide x 5/16" deep, drainage holes and closed carrying handles.



Part No.	Size LWH	Price
120-373	18" x 6" x 1"	\$17.45



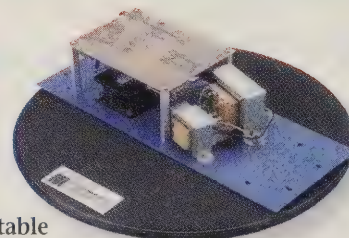
Fancort Industries

ESD Turntables

Complete ESD Protection

- Hold up to 200 lbs.
- Ribbed surface keeps assemblies stable

Turntables allow you to work on heavy or awkward assemblies without lifting. Features a rubberized conductive surface and plastic base. Surface resistivity is 5×10^6 ; volume resistivity is 1×10^7 . Three models to choose from.



Part No.	Model	Description	Price
416-458	D300	ESD Turntable, 12" dia x .5" high	\$99.95
416-459	D380	ESD Turntable, 15" dia x .5" high	\$109.10
416-460	D500	ESD Turntable, 20" dia x .6" high	\$178.00



Fancort Industries

Karry-All Adjustable PCB Carriers

Interlocking Design for Vertical, Horizontal and Edge-Down Stacking

- Offers ESD protection
- Holds medium to large boards
- Complete solvent compatibility
- Heat deflection (185°F)

Card guides offer alternately offset channel guides with reference number on every other slot to allow easy insertion. Injection molded from glass-fiber and reinforced polypropylene offering ESD protection of 10^3 ohms/sq. Guides measure 18-3/4" x 12-1/2" x 1" with 75 grooves, .110" W x .155" D on a .210" pitch. Shown with optional carrying handle & plastic thumb screws. All three models fit standard 17" x 22" tote boxes.



Part No.	Overall Dimensions			Board Capacity		Price
	L	W	D	Width	Depth	
120-324	18-3/4"	14"	12-1/2"	12"	12"	\$109.25
120-325	18-3/4"	20"	12-1/2"	18"	12"	\$112.95
120-326	18-3/4"	26"	12-1/2"	24"	12"	\$118.95



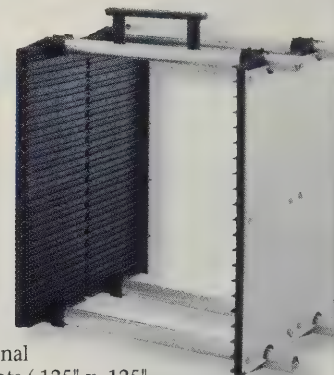
Fancort Industries

Karry-All Conductive PCB Carriers

For Conventional and Hard-to-Hold Edges

- 18 slots on a pitch of .700
- 11" D models for vertically or horizontal storage

Designed for handling either conventional boards or hard-to-hold edges. Offers two slots (.125" x .125" inside a .600" W x .200" D slot). Small slot accommodates conventional edges while the larger slot is designed for holding board edges with connectors, components or hardware up to .580" thick. Shown with optional carrying handle.



Part No.	Overall Dimensions			Board Capacity		Price
	L	W	D	Width	Depth	
120-321	15-1/4"	8-7/8"	5-1/2"	7-3/4"	8"	\$57.00
120-320	15-1/4"	8-7/8"	11"	7-3/4"	16"	\$118.95
120-316	15-1/4"	13-7/8"	5-1/2"	12-3/4"	8"	\$59.45
120-315	15-1/4"	13-7/8"	11"	12-3/4"	16"	\$130.75
120-318	15-1/4"	19-7/8"	5-1/2"	18-3/4"	8"	\$65.50
120-317	15-1/4"	19-7/8"	11"	18-3/4"	16"	\$137.00

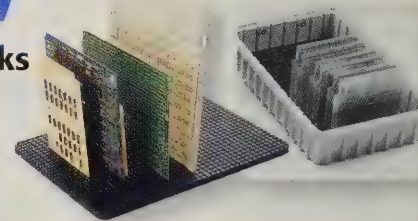


OLYMPIC

Conductive PCB Racks

Use Stand-Alone or In Tote Boxes

- Hold standard .070" PCBs
- Slot depth .25"
- Bentrion material (10^3 to 10^5 ohm/sq.)



Part No.	Size LWH	Carton Quantity	Price *
119-907	9" x 6.2"	96	\$17.55
119-908	14.8" x 9"	48	\$25.80
119-909	20" x 14.8"	24	\$39.15

* For orders less than carton quantity, add \$7.00 handling charge per part number.

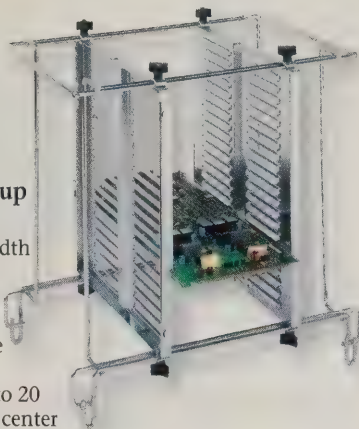

METRO

PCB Hand-Held Carriers

Safe and Efficient Handling

- Stackable
- Hi-temperature phenolic knobs (up to 400°F)

Slide panels are adjustable to exact width of boards to be handled and movable retaining bars enable boards to be loaded and unloaded from either side. Slides offer 5/8" spacing on centers, accommodate boards up to 1/8" thick. Carriers feature a chrome-plated carbon steel and hold up to 20 full-size boards with addition of optional center panels (part number 120-348) can carry two or more boards on each level. In this way carriers can hold from 40 to 80 (12" x 6") boards. PCBs not included.



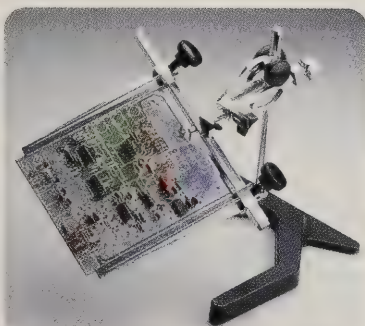
Part No.	Model	Description	Max. Board Size	Price
120-345	CBC11C	PCB Carrier	13" x 12"	\$113.40
120-346	CBC13C	PCB Carrier	19-1/4" x 12"	\$119.70
120-347	CBC14C	PCB Carrier	26-1/8" x 12"	\$126.00
120-348	CBCP2C	Double Sided Center Panel (not shown)	-	\$82.95

Circuit Board Holder

Rotates 360° with Automatic Stops at 90° Increments

- Locks at any angle
- Height adjustment
- Cast-iron non-tip stability

Features 6" V-grooved arms that hold boards from 1" x 1" up to 8" x 8" with thicknesses from 1/32" to 1/8". Tilt position has automatic adjustment for holding boards horizontally, 15°, or 30° down. Fast cam action spring-loaded lever permits quick insertion and removal of boards.

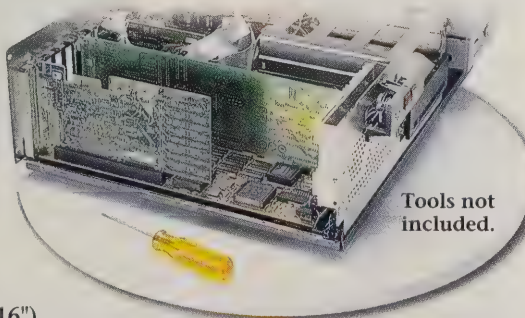


Part No.	Description	Price
119-487	Circuit Board Holder	\$75.00

Service Turntables

Speeds Bench Repairs

- Unrestricted 360° rotation
- Maintenance free and rust resistant
- 200 lbs. capacity
- Two sizes (24" or 16")



Perfect for servicing electronic devices, appliances, computers, printers, etc. Also share test equipment between people on the same bench. Features a high impact laminated plastic base with interlocked ball bearings for easy rotation.

Part No.	Description	Price
767-509	Service Turntable, 24" diameter	\$72.40
767-093	Service Turntable, 16" diameter	\$56.10

ARLINK 
DESIGNED FOR A CHANGING WORLD

Bench Top Progressive Assembly System

Link Together to Form a Continuous Assembly Line

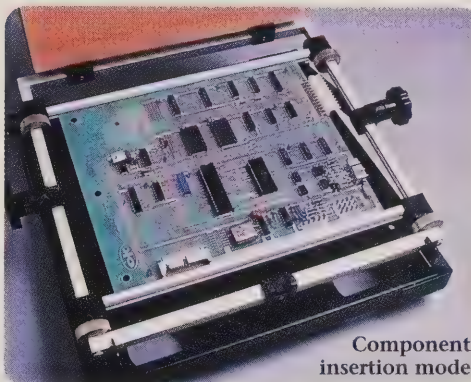
- Easy adjustable rails
- Accept up to a 15" wide pallet or PCB's



Rails offer a groove depth of 1/8" x 1/8" on top side and 1/8" x 1/16" on reverse side for PCBs with less clearance. Optional third slide-rail Part No. 120-774 can be added for increased capacity. System includes: two 48" long slide-rails with joiner pins and angled end supports. Optional 36" long parts bins rails accept industry standard bins. Offered in three depths (2", 4", 6") for tiered placement of bins. Bin rails hook into optional vertical uprights Part No. 120-789 that attach to slide-rail end supports.

Model 8980 with optional support rails and uprights for part bins.

Part No.	Model	Description	Price
120-959	8980	PCB Assembly System	\$207.15
120-774	8380	Extra Slide-Rail (w/joining pins)	\$54.90
120-750	8243	Parts Bin Rail 36" x 2" deep	\$37.40
120-751	8244	Parts Bin Rail 36" x 4" deep	\$37.40
120-752	8245	Parts Bin Rail 36" x 6" deep	\$37.40
120-789	8505	Slotted Uprights (set of 2)	\$35.75



Component insertion mode



Cover in clamped-down position



Fixture up and ready to be rotated 180°

"Flip-Over" PCB Assembly Holder

Hold One or Multiple PCBs In Place

- Available in four sizes
- Rotate boards 180°

A foam-backed cover is clamped over boards after component insertion to hold components firmly in place. Foam adapts to 1-3/16" component height variations. Fixture features two adjustable spring-load outboard holding rails for quick insertion and removal of boards. Removable center rail to accommodate both larger sized boards. Fixture rests at an angled position and slightly overlaps edge of your bench.

Part No.	Model	Max. Board Size (without center bar)	Outside Dimensions	Price
119-492	WY10	10.6" x 8.6"	15.5" x 11"	\$241.85
119-493	WY20	19.6" x 8.6"	25" x 11.75"	\$262.60
119-494	WY30	29.5" x 8.6"	35" x 11.75"	\$342.70
119-495	WY40	19.6" x 13.8"	25" x 17"	\$418.40



PROTEKTIVE PAK

Conductive Foam

**Non-Contaminating,
Non-Corrosive and Non-
Sloughing**

■ Available in two densities

This black conductive polyethylene foam features a crosslinked permanently conductive material. Unlike urethane foams, it offers a permanent volume resistivity of 10^4 ohms-cm. Available in two densities: Low density 2.8 lbs./cu.ft foam for cushioning of components and electronic ESD sensitive materials. Medium density 3.1 lbs./cu.ft. foam for component pin or lead insertion to provide shunting of the leads from electrostatic damage. Foam priced per sheet.

Low Density

■ 2.8 lbs./cu.ft. compression strength 10.0 PSI

Part No.	Thickness	Size	Price
408-381	1/8"	37" x 57"	\$27.83
408-382	1/4"	37" x 57"	\$59.08
408-383	3/8"	37" x 57"	\$77.69
408-384	1/2"	37" x 57"	\$118.60

Medium Density

■ 3.1 lbs./cu.ft. compression strength 16.0 PSI

Part No.	Thickness	Size	Price
408-385	1/8"	36" x 60"	\$25.73
408-386	1/4"	36" x 60"	\$47.84
408-387	5/16"	36" x 60"	\$56.15
408-388	3/8"	36" x 60"	\$62.13
408-389	1/2"	36" x 60"	\$95.29

*Minimum order \$100.00

PROTEKTIVE PAK

Static-Dissipative Foam For Cushioning

■ Use (1.9 lbs./cu.ft. compression strength 9.5 PSI)

Ideal for cushioning circuit boards and ESD sensitive components. Foam is a closed cell cross-linked low density polyethylene which is permanently static-dissipative. Surface resistivity is 10^7 ohms/sq. Priced per sheet.

Part No.	Thickness	Size	Price
408-390	1/8"	40" x 75"	\$31.64
408-391	1/4"	40" x 75"	\$60.03
408-392	3/8"	40" x 75"	\$88.62
408-393	1/2"	40" x 75"	\$145.22

*Minimum order \$100.00

PROTEKTIVE PAK

Anti-Static Foam

■ 1.4 lbs./cu.ft.

This economical urethane foam will not tribo-charge and is ideal for cushioning and physical protection of ESD sensitive items. Priced per sheet.

Part No.	Thickness	Size	Price
408-394	1/4"	40" x 48"	\$11.73
408-395	1/2"	40" x 48"	\$19.58
408-708	3/4"	40" x 48"	\$30.32
408-709	1"	40" x 48"	\$35.98

*Minimum order \$100.00

PROTEKTIVE PAK

TEK-MATE® Portable Handler

**Use As a
Goundable
Workstation
or Carrier**

Constructed from permanently static-dissipative cross-link foam 1/4" thickness, (surface resistivity- 10^7 ohms/sq.) bonded to a laminated static-safe corrugated surface, with a 3/8" female grounding snap. Optional common point grounding cord Part No. 126-182, provides grounding for a wrist strap and work surface. Work surface is priced per each.

Part No.	Description	Price
127-271	12" x 18" Work Surface	\$12.71
127-272	18" x 24" Work Surface	\$23.70
126-182	15' Ground Cord with Ring Terminal	\$14.15

*Minimum order \$100.00



Static-Shielding Single-Card Carriers

**Protect PC Boards During
Transportation and Storage**

Molded from high-impact conductive plastic this tough case will give both physical and ESD protection. Interior is lined with anti-static shock-absorbing foam designed to nest and protect your PC board. Built-in snap allows you to connect to a grounding cord. Hinged lid has two fastening tabs.

Part No.	Model	Inside Dimension	Price
126-990	8520	10" x 8" x 1-1/4"	\$23.30
126-993	8523	10" x 8" x 2"	\$26.50
126-991	8521	12" x 9" x 1-1/4"	\$29.00
126-992	8522	18" x 17" x 2"	\$59.00



Static Shielding Storage Boxes with Foam

**Foam Forms to Components
for Secure Protection**

■ ESD-Safe

Designed to safely package one or more ESD sensitive devices without custom tooling. Constructed from static shielding injection molded plastic with conductive foam inserts. Features "pillow pad" foam which tends to form around the encapsulated item (i.e. ball grid arrays, wafers and components with fine pitched leads, etc.). Includes removable foam inserts and ESD-Safe label attached to each box.

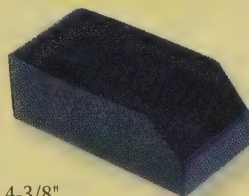
Part No.	Description	SizeLWD	Carton Quantity	Price
423-294	Static Shielding Box with Foam	2" x 2" x 1/4"	150	\$2.00
423-295	Static Shielding Box with Foam	2-9/16" x 2-9/16" x 1/2"	100	\$2.90
423-296	Static Shielding Box with Foam	2-9/16" x 3-1/2" x 1/2"	75	\$3.80
423-297	Static Shielding Box with Foam	4-5/8" x 3-1/2" x 1/2"	75	\$5.80
423-298	Static Shielding Box with Foam	7" x 3-1/2" x 1/2"	100	\$8.10

*For orders less than carton quantity add \$10.00 broken bundle fee per part number.



Material Specifications

These containers are made of durable 200#B-Flute conductive cardboard with and impregnated liner on both sides allowing for complete "Faraday Cage" protection. A buried shielding layer of $<10^4$ ohms/sq. minimizes the potential for sloughing and rub-off contamination. A static dissipative surface of 10^7 - 10^{10} ohms/sq. reduces the potential of sparking and tribo charging. Non-corrosive to copper, solder and silver with a bursting strength of 200 lbs.



Conductive Open Bin Boxes

Made of 200# B-Flute conductive cardboard (see materials specifications). Inside Depth (Height): 4-3/8".

Part No.	Outside Dimension Length	Width	Inside Dimension Length	Width	*Price Each
126-476	12"	2"	11-1/4"	1-3/4"	\$2.86
126-479	12"	4"	11-1/4"	3-3/4"	\$2.98
126-483	12"	6"	11-1/4"	5-3/4"	\$3.62
126-494	12"	8"	11-1/4"	7-3/4"	\$4.13
126-502	12"	12"	11-1/4"	11-3/4"	\$4.45
126-515	18"	2"	17-1/4"	1-3/4"	\$3.62
126-507	18"	4"	17-1/4"	3-3/4"	\$3.75
126-509	18"	6"	17-1/4"	5-3/8"	\$4.00
126-510	18"	8"	17-1/4"	7-3/8"	\$4.13
126-511	18"	12"	17-1/4"	11-3/4"	\$4.77
126-516	24-3/4"	2-1/4"	24"	2"	\$4.38
126-512	24-3/4"	4-1/4"	24"	4"	\$4.30
126-513	24-3/4"	6-1/4"	24"	6"	\$5.02
126-514	24-3/4"	8-1/4"	24"	8"	\$5.45

*Minimum order \$100.00

PLASTEK™ Material Specifications

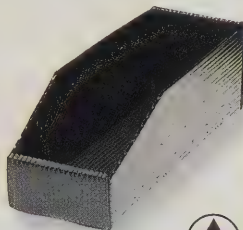
PLASTEK™ Conductive Fluted Plastic products are made from extruded, high impact polypropylene material. They are an economical alternative to injection molded products and features a thickness of 3mm, and surface resistivity 10^3 - 10^5 ohms/sq. Permanently conductive, lightweight, chemical resistant, moisture proof and has a temperature tolerance -17° F to +230° F, melting point 324° F.

PLASTEK™ Conductive Open Bin Boxes

Economical Alternative to Injection Molded

Chemical and moisture resistant

These boxes offer a safe storage for static sensitive devices. Made from high impact polypropylene material, (see materials specifications above).



Part No.	Outside Dimensions L x W x H	*Price Each
413-726	12" x 2" x 4"	\$3.31
413-727	12" x 4" x 4"	\$3.70
413-728	12" x 6" x 4"	\$4.07
413-729	12" x 8" x 4"	\$4.64
413-730	18" x 2" x 4"	\$4.15
413-731	18" x 4" x 4"	\$4.66
413-732	18" x 6" x 4"	\$5.18
413-733	18" x 8" x 4"	\$5.70
413-734	24" x 2" x 4"	\$4.65
413-735	24" x 4" x 4"	\$5.72
413-736	24" x 6" x 4"	\$5.99

*Minimum order \$100.00.



Conductive Shippers with Foam

Provide Both ESD and Physical Protection

Come complete with anti-static urethane foam (10^{11} ohms/square). Convuluted foam is laminated to top and is removable on bottom. Made from 200# B-Flute conductive cardboard (see material specifications).



Part No.	Length	Inside Dimension Width	Depth	*Price Each
404-724	4"	4"	2-1/8"	\$2.86
404-725	6-3/16"	6"	1-1/2"	\$3.24
126-311	7"	5"	1-1/2"	\$3.05
126-318	7"	5"	2-1/2"	\$3.56
404-726	7"	7"	1-1/2"	\$3.56
126-320	9"	7-1/2"	2-1/2"	\$5.21
404-727	9"	9"	1-1/2"	\$4.32
126-323	10-1/2"	8-1/2"	1-1/2"	\$5.21
126-332	10-1/2"	8-1/2"	2-1/2"	\$5.85
126-334	12-1/2"	10-1/2"	1-1/2"	\$5.97
126-336	12-1/2"	10-1/2"	2-1/2"	\$7.56
126-339	14-7/8"	6-5/8"	2"	\$4.58
126-383	15-1/2"	12-1/2"	1-1/2"	\$8.00
126-400	15-1/2"	12-1/2"	2-1/2"	\$8.96
126-416	16"	12-1/4"	3-1/2"	\$9.66
404-728	16"	15"	3"	\$12.20
126-422	20-1/2"	15-1/2"	2-1/2"	\$11.31

*Minimum order \$100.00



Conductive Mini Packs with Foam

Provide Both ESD & Physical Protection

Complete with anti-static urethane foam (10^{11} ohms/square) laminated to top, and removable conductive cross-linked polyethylene foam (less than 10^4 ohms/square) on bottom. Made of 200# B-Flute conductive cardboard (see material specifications).



Part No.	Length	Inside Dimension Width	Depth	*Price Each
126-056	2-1/2"	1-1/4"	1"	\$1.33
404-732	2-3/4"	2-3/4"	1"	\$1.65
126-063	3-7/16"	2-1/8"	1"	\$1.60
126-058	3-1/2"	1-1/4"	1"	\$1.40
126-077	3-3/4"	3-3/4"	1"	\$2.60
126-092	4-1/8"	3-1/16"	1"	\$2.86
404-733	4-3/8"	4-3/8"	1"	\$3.18
126-061	4-1/2"	1-1/4"	1"	\$1.60
404-735	5-1/2"	1-1/2"	1"	\$1.70
126-087	7"	3-1/2"	1"	\$2.86

*Minimum order \$100.00

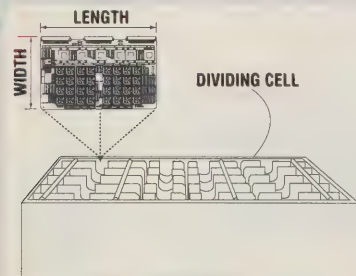


Conductive In-Plant Handlers

Over 200 Sizes to Choose From for Optimal Fit of Your PCBs

- No tooling costs
- Easy assembly without the need for tape, glue, or staples

Handlers provide full ESD protection and are ideal for storing and transporting static sensitive components and assemblies. Durable 200#B-Flute conductive cardboard with an impregnated liner on both sides allows for complete "Faraday Cage" protection. A buried shielding layer of less than 10^4 ohms/sq. minimizes the potential for sloughing and rub-off contamination. A static dissipative surface of 10^7 - 10^{10} ohms/sq. reduces the potential of sparking and tribo-charging. Constructed with double sides, triple ends, and double thickness bottom ensures greater durability. Come complete with box, lids and cells.



How to Order

1. Measure your circuit board (Width x Length x Thickness).
2. From the tables listed, select a cell size large enough to accommodate the circuit board. Cell sizes are listed in increasing order by Width then Length.

If you do not see your cell size listed. Please call our technical support department (1-800-866-5487). Provide the size of your PCB (i.e. 6-1/4" x 4-1/2" x 1"), and we will provide you the most efficient In-Plant Handler.

Box Size: 17" L x 9-7/8" W x 2-1/2" H

Part No.	Length	Cell Size Width	Thickness	Cells per Box	Price
404-893	2-1/2"	2-1/4"	3/4"	60	\$29.22
404-894	2-1/2"	2-1/4"	1-3/4"	30	\$24.64
404-895	2-1/2"	4-3/4"	3/4"	30	\$23.12
404-896	2-1/2"	4-3/4"	1-3/4"	15	\$18.55

*Minimum order \$100.00.

Box Size: 16-7/8" L x 10" W x 3-1/2" H

Part No.	Length	Cell Size Width	Thickness	Cells per Box	Price
126-706	3-1/2"	2-1/4"	3/4"	60	\$30.74
126-701	3-1/2"	4-3/4"	1-3/4"	15	\$19.95
126-704	3-1/2"	7-1/4"	3/4"	20	\$22.37

*Minimum order \$100.00.

Box Size: 16-7/8" L x 10" W x 5-3/8" H

Part No.	Length	Cell Size Width	Thickness	Cells per Box	Price
126-578	5-3/8"	2-1/4"	1-3/4"	30	\$28.46
126-589	5-3/8"	4-3/4"	3/4"	30	\$27.32
126-588	5-3/8"	7-1/4"	3/4"	20	\$25.03

*Minimum order \$100.00.

Box Size: 18-5/8" L x 15" W x 5-7/8" H

Part No.	Length	Cell Size Width	Thickness	Cells per Box	Price
404-901	5-7/8"	4"	1-1/4"	40	\$36.72
404-902	5-7/8"	4"	2-3/4"	20	\$29.99
404-903	5-7/8"	5-3/8"	1-1/4"	30	\$34.18
404-917	5-7/8"	16-5/8"	2-3/4"	5	\$22.62

*Minimum order \$100.00.

Box Size: 22-7/8" L x 12-7/8" W x 6" H

Part No.	Length	Cell Size Width	Thickness	Cells per Box	Price
126-819	6"	4-3/4"	2-1/4"	20	\$35.21
126-818	6"	6-1/2"	2-1/4"	15	\$29.16
126-813♦	6"	10-3/4"	1-5/8"	12	\$36.72

♦Includes conductive plastic insert handles*Minimum order \$100.00.

Box Size: 17" L x 9-7/8" W x 7-5/8" H

Part No.	Length	Cell Size Width	Thickness	Cells per Box	Price
126-556	7-1/4"	4-3/4"	1-3/4"	15	\$24.91
126-555	7-1/4"	7-1/4"	1-3/4"	10	\$22.49

*Minimum order \$100.00.

Box Size: 22-7/8" L x 12-7/8" W x 8" H

Part No.	Length	Cell Size Width	Thickness	Cells per Box	Price
126-840	8"	4-3/4"	1"	40	\$42.30
126-839	8"	6-1/2"	1"	30	\$39.76
126-838	8"	10"	1"	20	\$37.22
126-830♦	8"	10-3/4"	1-5/8"	12	\$41.80

♦Includes conductive plastic insert handles*Minimum order \$100.00.

Box Size: 18-5/8" L x 15" W x 8" H

Part No.	Length	Cell Size Width	Thickness	Cells per Box	Price
404-931	8"	5-3/8"	1-1/4"	30	\$41.16
404-934♦	8"	6-1/4"	1-5/8"	20	\$44.22
404-939	8"	8-1/8"	2-3/4"	10	\$31.76

♦Includes conductive plastic insert handles*Minimum order \$100.00.

Box Size: 17" L x 13" W x 8-3/4" H

Part No.	Length	Cell Size Width	Thickness	Cells per Box	Price
404-947	8-3/4"	4-5/8"	1"	30	\$37.86
404-953	8-3/4"	14-5/8"	1"	10	\$32.53
404-954	8-3/4"	14-5/8"	2-3/8"	5	\$25.79

*Minimum order \$100.00.

Box Size: 17" L x 9-7/8" W x 11-5/8" H

Part No.	Length	Cell Size Width	Thickness	Cells per Box	Price
126-607	11-1/4"	2-1/4"	3/4"	60	\$47.26
126-601	11-1/4"	7-1/4"	1-3/4"	10	\$28.08
126-604	11-1/4"	14-3/4"	3/4"	10	\$34.18

*Minimum order \$100.00.

Box Size: 18-5/8" L x 15" W x 12" H

Part No.	Length	Cell Size Width	Thickness	Cells per Box	Price
404-985	12"	4"	1-1/4"	40	\$52.47
404-994	12"	8-1/8"	1"	24	\$50.05
404-996♦	12"	8-1/8"	2-3/4"	10	\$37.10
405-002	12"	16-5/8"	1-1/4"	10	\$43.32

♦Includes conductive plastic insert handles. * Minimum order \$100.00.

Box Size: 18-5/8" L x 15" W x 14" H

Part No.	Length	Cell Size Width	Thickness	Cells per Box	Price
405-008	14"	4"	1-1/4"	40	\$54.76
405-016	14"	8-1/8"	1"	24	\$51.84
405-025	14"	16-5/8"	2-3/4"	5	\$35.57

* Minimum order \$100.00.



Static Dissipative Parts Cabinet

- Cabinets measure 6" L x 13-3/16" W x 10" H
- Available in two models with different drawer configurations

Made of durable 200#B-Flute conductive cardboard with an impregnated liner on both sides allows for complete "Faraday Cage" protection. Buried shielding layer (<10⁴ ohms/sq.) minimizes the potential for sloughing and rub-off contamination. Static dissipative surface (10⁷-10¹⁰ ohms/sq.) reduces potential of sparking and tribo-charging.

Part No. 127-267 features 20 drawers-15 small drawers (5-3/8" L x 2-1/4" W x 1-1/4" H), 4 medium drawers (5-3/8" L x 2-7/8" W x 2" H) and 1 large drawer (5-3/8" L x 12-3/8" W x 2" H).

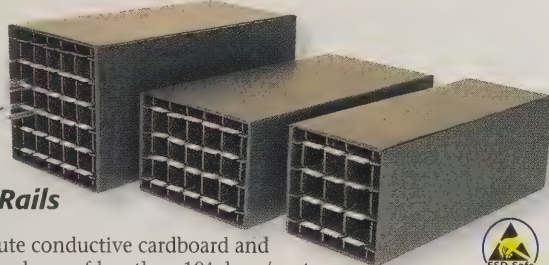
Part No. 127-266 features 30 small drawers (5-3/8" L x 2-1/4" W x 1-1/4" H).

Part No.	No. of Drawers	Carton Quantity	Price
127-267	20	3	\$51.75
127-266	30	3	\$54.34

*Minimum order \$100.00

Tube/Rail Handlers

Safely Store and Transport DIP Tubes and Rails



Made of 200#B-Flute conductive cardboard and have a buried shielding layer of less than 10⁴ ohms/sq. to minimize the potential for sloughing and rub-off contamination. A static dissipative surface of 10⁷-10¹⁰ ohms/sq. reduces the potential for sparking and tribo-charging. Each individual cell has an extender tab which you can label to identify the contents. Handlers are shipped knocked down, assembly required.

Part No.	Outside Dimension			Inside Dimension			# of Cells	Price
	L	W	H	L	W	H		
406-297	12"	6"	20"	1-7/8"	1-7/8"	20"	10	\$58.90
406-298	12"	12"	24"	1-7/8"	1-7/8"	24"	25	\$50.05
406-299	24"	12"	24"	1-7/8"	1-7/8"	24"	50	\$60.92

*Minimum Order \$100.00

Reel/DIP Tube Bin Boxes

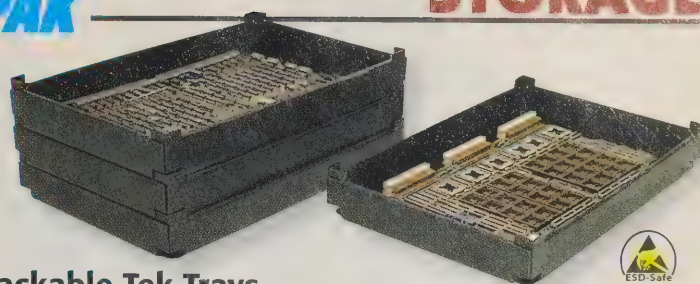
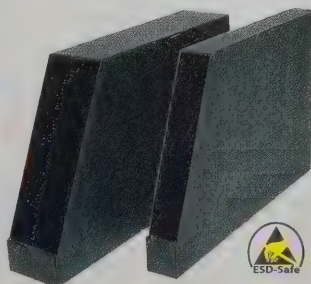
Store, Kit and Transport Both Reels and Rail/DIP Tubes in the Same Box

Made of 200#B-Flute conductive cardboard and have a buried shielding layer of <10⁴ ohms/sq. to minimize the potential for sloughing and rub-off contamination. Static dissipative surface of 10⁷-10¹⁰ ohms/sq. reduces the potential of sparking and tribo-charging. Shipped knocked down, assembly required.

Closed Reel/DIP Tube Bin Boxes

Part No.	Outside Dimensions			Price
	Length	Width	Depth	
409-036	24-3/8"	2-11/16"	15-1/4"	\$9.46
409-037	24-3/8"	4-11/16"	15-1/4"	\$10.67

*Minimum order \$100.00



Stackable Tek Trays

Safe Handling and Transporting of Static Sensitive Items

- Complete with static dissipative foam

Made of 200#B-Flute conductive cardboard and have a buried shielding layer of less than 10⁴ ohms/sq. to minimize the potential for sloughing and rub-off contamination. A static dissipative surface of 10⁷-10¹⁰ ohms/sq. reduces the potential of sparking and tribo-charging. Trays come with a 1/4" thick permanently static dissipative foam (10⁶-10⁹ ohms/sq.) laminated to the bottom. No assembly required.

Part No.	SizeLWH	Quantity	Price
406-151	18" x 11-3/8" x 1-3/4"	10	\$11.43
406-152	24" x 18" x 2-1/8"	5	\$22.24

*Minimum order \$100.00



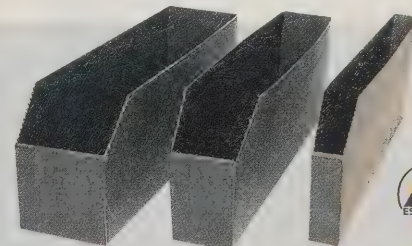
Conductive Reel Storage Containers

Available For 13" and 7" Reel Sizes

Heavy duty containers feature static dissipative ribs that prevent the reels from rolling forward when stacked and from falling over when the container is partially full. Part no. 129-877 features a metal reinforced perimeter frame. All models come fully assembled with static-dissipative handles.

Part No.	Description	SizeLWD	Carton Quantity	Price
129-877	13"	13-1/2" x 12" x 13-1/4"	2	\$44.40
129-878	7"	12" x 7-1/4" x 7-1/4"	4	\$29.99
129-879	7"	24" x 7-1/4" x 7-1/4"	2	\$45.30

*Minimum order \$100.00



Open Reel/DIP Tube Bin Boxes

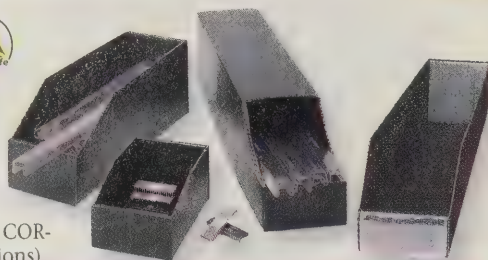
Part No.	Length	Outside Dimensions		Price
		Width	Depth	
409-030	18"	2"	9"	\$6.23
409-031	18"	4"	9"	\$6.86
409-032	18"	6"	9"	\$7.50
409-033	24"	2"	9"	\$7.06
409-034	24"	4"	9"	\$7.75
409-035	24"	6"	9"	\$8.45

*Minimum order \$100.00



Conductive Bin Boxes

Available in open or stackable styles, constructed from CORSTAT™ conductive cardboard (see CORSTAT™ material specifications).



Part No.	Model	Description	Outside Dimensions L x W x H	Carton Quantity	Price
140-841	1001	Open Bin	12" x 4" x 4-3/8"	25	\$3.00
140-842	1003	Open Bin	12" x 6" x 4-1/2"	25	\$3.20
141-408	1010	Open Bin	12" x 8" x 4-3/8"	25	\$3.26
140-843	1020	Open Bin	12" x 12" x 4-1/2"	25	\$3.80
140-844	1052	Open Bin	18" x 4" x 4-1/2"	25	\$2.60
140-845	1053	Open Bin	18" x 6" x 4-1/2"	25	\$3.10
140-846	1054	Open Bin	18" x 8" x 4-1/2"	25	\$3.60
140-847	1062	Open Bin	18" x 12" x 4-1/2"	25	\$4.20
140-849	1162	Open Bin	24-5/8" x 12-1/4" x 4-1/8"	25	\$3.70
140-853	1105	Open Bin	24" x 4" x 4-5/8"	25	\$3.10
140-848	1125	Open Bin	24-3/4" x 6" x 4"	25	\$3.10
140-854	1144	Open Bin	24-3/4" x 8-1/4" x 4-5/8"	25	\$3.50
175-141	2035	Stackable Bin	12" x 4" x 4-1/2"	25	\$3.50
175-142	2065	Stackable Bin	12" x 7" x 4-1/2"	25	\$3.30
175-143	2095	Stackable Bin	18" x 4" x 4-1/2"	25	\$4.30
175-144	2105	Stackable Bin	18" x 7" x 4-1/2"	25	\$4.30
140-851	2155	Stackable Bin	24-3/4" x 4-1/4" x 4-3/4"	25	\$3.90
140-852	2185	Stackable Bin	24-3/4" x 6" x 4-1/2"	25	\$4.20

*For orders less than carton quantity add \$10.00 broken bundle fee per part number.



Conductive Plastic Kitting Trays

Kitting trays offer versatile in-plant handling and storage for static sensitive components, small parts and assemblies. Vacuum formed trays are made from .090 mil thick conductive plastic and are nestable when not in use. Optional die-cut-drop-in covers available.



Part No.	Model	Description	Compartments	Price
413-499	13030	Kitting Tray	12	\$11.30
413-503	13031	Cover For 13030	-	\$4.70
413-500	13040	Kitting Tray	9	\$14.70
413-504	13041	Cover For 13040	-	\$7.30
413-501	13050	Kitting Tray	12	\$14.70
413-505	13051	Cover For 13050	-	\$7.99
413-502	13060	Kitting Tray	12	\$18.11
413-506	13061	Cover For 13060	-	\$7.30

Kitting Tray Specifications

Model	Size L x W x D	Number of Compartments	Compartment Size
13030	10-1/2" x 8-3/4" x 1-1/2"	12	2-1/4" x 2-1/8" x 1-3/16"
13040	14" x 10" x 1-3/4"	9	3-5/8" x 2-3/4" x 1-1/4"
13050	14" x 10" x 1-3/4"	12	3" x 3" x 1-1/4"
13060	16-1/4" x 10-1/2" x 2"	12	9 @ 3-1/4" x 3" x 1-1/4" 3 @ 4-1/4" x 3" x 1-1/4"

CORSTAT™ Material Specifications

CORSTAT™ material is constructed from 200 lb. B-Flute conductive corrugated fiberboard. Providing a buried shielding layer (<10³ ohms/sq.) and a sealed dissipative surface (10⁴ - 10⁶ ohms/sq.) on both sides for a controlled path to ground and a complete faraday cage protection.



Conductive Shippers with Foam

■ Printed with static warning

Constructed from CORSTAT™ conductive cardboard. Shippers come complete with pink static dissipative convoluted urethane foam (10⁹ - 10¹¹). Foam is not laminated to shipper and provides cushioning for sensitive items. See CORSTAT™ material specifications.

Part No.	Model	Inside Dimensions L x W x H	Price
142-462	3080-1	7" x 5" x 1-1/2"	\$3.00
420-274	3090-2	7" x 5" x 2-1/2"	\$3.40
420-275	3180-3	9" x 7-1/2" x 1-1/2"	\$4.30
140-863	3190-4	9" x 7-1/2" x 2-1/2"	\$5.00
140-865	3220-5	10-1/2" x 8-1/2" x 1-1/2"	\$4.60
420-276	3230-6	10-1/2" x 8-1/2" x 2-1/2"	\$5.10
420-277	3310-7	12-1/2" x 10-1/2" x 1-1/2"	\$5.60
420-278	3320-8	12-1/2" x 10-1/2" x 2-1/2"	\$6.80
420-279	3500-10	15-1/2" x 12-1/2" x 2-1/2"	\$8.10
420-280	3525-14	16" x 12-1/4" x 3-1/2"	\$9.00
420-281	3568-15	18-7/8" x 17-5/8" x 1-3/4"	\$10.00
140-866	3610-12	20-1/2" x 15-1/2" x 2-1/2"	\$11.20

*For orders less than carton quantity add \$10.00 broken bundle fee per part number.



IC Mini Shippers with Foam

■ Printed with static warning

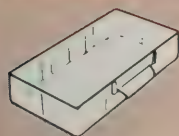
Constructed from CORSTAT™ IC shippers come complete with black conductive crosslink foam (10³ - 10⁵) on the bottom, which provides for pin insertion of leads to hold the component in place. Pink antistatic cushioning foam (10⁹ - 10¹¹) is laminated to the top. See CORSTAT™ material specifications.

Part No.	Model	Inside Dimensions L x W x H	Carton Quantity	Price
142-463	IC5000	2-1/2" x 1-1/4" x 1"	100	\$1.40
420-271	IC5025	2-3/4" x 2-3/4" x 15/16"	100	\$1.60
140-872	IC5030	3-7/16" x 2-1/8" x 15/16"	100	\$1.50
140-870	IC5010	3-1/2" x 1-1/4" x 1"	100	\$1.50
140-873	IC5040	3-3/4" x 3-3/4" x 1"	100	\$2.50
140-871	IC5020	4-1/2" x 1-1/4" x 1"	100	\$1.60
420-272	IC5041	4-3/4" x 3-3/4" x 1"	48	\$2.60
420-273	IC5045	5-3/4" x 2-3/4" x 15/16"	50	\$2.80
140-875	IC5055	5-3/4" x 5-3/4" x 15/16"	25	\$3.50
140-874	IC5050	7" x 3-1/2" x 1"	50	\$2.80
140-876	IC5060	14-3/4" x 5-3/4" x 15/16"	-	\$7.50

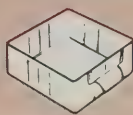
*For orders less than carton quantity add \$10.00 broken bundle fee per part number.



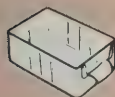
Drawer Types



TF
2-1/4" H
11" W
5-5/16" D



TJ
2-1/4" H
5-5/16" W
5-5/16" D



TQ
2-1/4" H
2-1/2" W
5-5/16" D



TW
1-3/8" H
2" W
5-5/16" D



119-937



119-936



Flambeau®

Conductive Storage Cabinets

ESD-Safe Organization for Small Parts

- Rust-proof and dent-proof
- Complete with grounding cord
- Optional dividers available

Cabinets feature a conductive copolymer plastic shell and drawers have a surface resistivity of $10^3 - 10^6$ ohm/sq. Ground cord may not be used if cabinet is placed on a grounded conductive surface. Part No. 119-937 and 119-900 measure 16-1/2" x 12" x 6". Part No. 119-936 and 119-899 measure 11-1/4" x 12" x 6".

Conductive Cabinets and Drawer Type

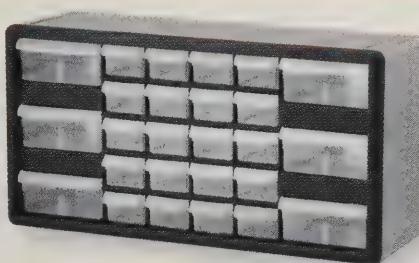
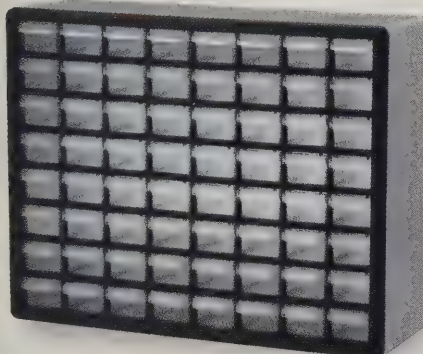
Part No.	No. of Drawers	Drawer Type	Price
119-937	45	TW	\$64.50
119-900	26	TW(15)-TQ(8)-TJ(2)-TF(1)	\$61.80
119-936	30	TW	\$46.45
119-899	20	TW(15)-TQ(4)-TF(1)	\$46.45

Dividers

Part No.	Fit Drawer	Standard Pack	Price
119-882	TW	24	\$7.95
425-451	TQ	24	\$8.75
413-381	TJ, TF	12	\$9.60

423-927

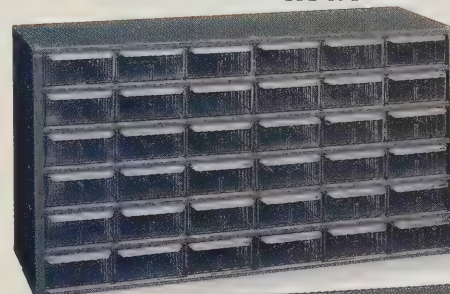
423-930



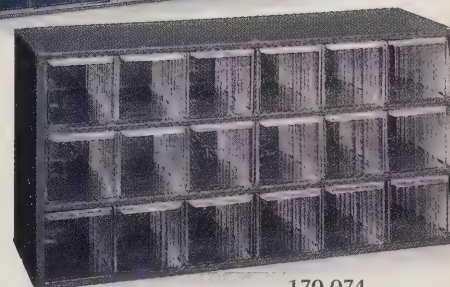
423-929



151-093



170-074



AKRO-MILS

Small Parts Storage Cabinets

New

Durable Yet Economical

- Polypropylene drawers with finger grip pulls
- Polystyrene frame
- Chemical-resistant



Strong high-impact plastic cabinets and drawers organize and protect small parts and components. A variety of drawer configurations provide versatile storage solutions. Cabinets stack securely and are wall mountable.

Part No.	Size L x W x D	No. of Drawers	Drawer Size L x W x H	Price
423-926	10-9/16" x 8-1/8" x 6-3/8"	16	5-1/4" x 2-1/8" x 1-1/2"	\$13.95
423-927	20" x 10-11/32" x 6-3/8"	20 6	5-1/4" x 2-1/8" x 1-1/2" 5-1/4" x 4-3/8" x 2"	\$20.50
423-928	20" x 15-13/16" x 6-3/8"	24	5-1/4" x 4-3/8" x 2"	\$27.15
423-929	20" x 15-13/16" x 6-3/8"	32 12	5-1/4" x 2-1/8" x 1-1/2" 5-1/4" x 4-3/8" x 2"	\$27.15
423-930	20" x 15-13/16" x 6-3/8"	64	5-1/4" x 2-1/8" x 1-1/2"	\$30.10

AKRO-MILS

Storage Cabinets

Store, Consolidate and Organize Small Parts

- Welded steel frame
- Chip-proof gray baked-enamel finish

Drawers are constructed from high-impact polystyrene and are rust, corrosion and dent-proof. Removable draws make filling easy and offers a rear stop tab to prevent draws from falling out. Cabinets measure 18" W x 6" D x 9-1/2" H with 5-3/4" drawer depth.

Part No.	Model	No. of Drawers	Drawer Size L x W x H	Price
151-093	17136	36	5-3/4" x 2-3/4" x 1-1/4"	\$57.00
170-074	17018	18	5-3/4" x 2-3/4" x 2-1/2"	\$57.00

CABINETS & BOXES



AKRO-MILS

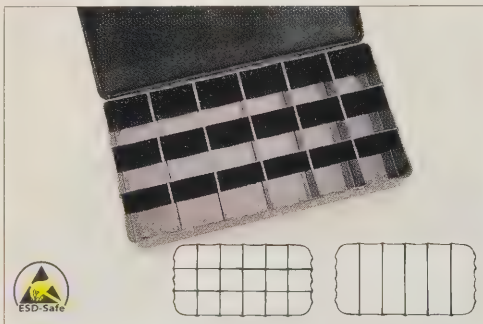
Storage-Go-Round Access Up To 560 Drawers

- Rotating storage base
- Holds up to 1,000 lbs.
- Only take up 1 sq. yard of floor space

Steel turntable base will hold up to twenty cabinets (in any combination) of the "1900" series Akro cabinets. Shown assembled with 20 cabinets. Cabinets must be ordered separately. Assembled system dimensions are 31" W x 60" H x 31" D.



Part No.	Model	Description	Price
119-891	98-325	Turntable Base	\$505.00



Conductive Part Boxes

Lightweight Yet Shatterproof

- Two compartment configurations

Molded from conductive black polypropylene designed for static dissipation. Both boxes measures 8" x 4-1/8" x 1-3/16".

Part No.	Description	Price
116-921	18 Compartments	\$5.15
116-922	6 Compartments	\$5.15

Flambeau®

Storage Boxes with Infinite Divider System

Provides Flexibility to Organize Small Parts

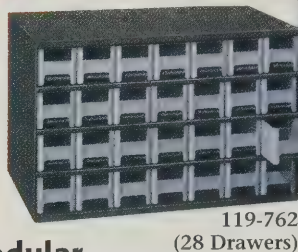
Boxes are made of durable solvent resistant polypropylene and provide the ultimate flexibility in organizing space. You place the dividers where you need them, in 1/8" increments.

Part No.	Inside Dimensions L x W x H	Compartments	Dividers	Price
403-313	6-5/8" x 3-7/8" x 1-1/4"	3	2	\$4.20
403-314	10-3/8" x 6-1/8" x 1-5/8"	6	6	\$6.10
403-315	13-1/8" x 8-5/8" x 1-7/8"	4	16	\$9.70

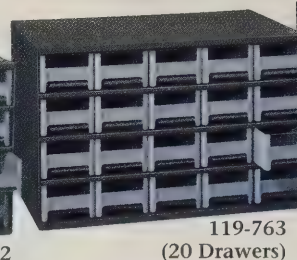
Part No.
403-315



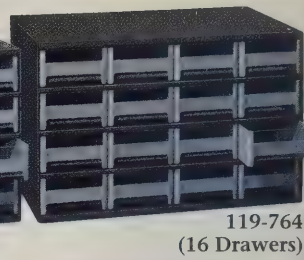
AKRO-MILS



119-762
(28 Drawers)



119-763
(20 Drawers)



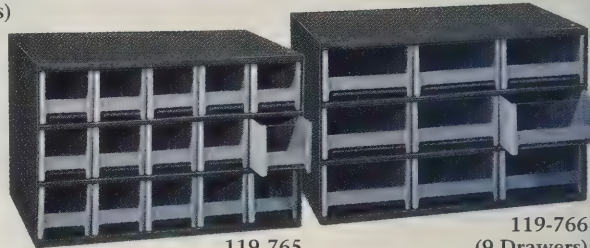
119-764
(16 Drawers)

Modular Storage Cabinets (1900 Series)

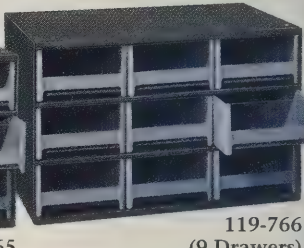
Store, Consolidate and Organize Small Parts

- Welded steel frame
- Chip-proof gray baked-enamel finish
- Keyhole slots for wall mounting
- Built-in nesting feet for stacking

These cabinet drawers are molded from heavy-duty, high-impact polystyrene. Each drawer is removable for filling and features a stop tab to prevent spills, molded in label holder and two movable dividers. Cabinets measure 17" W x 11" D x 11" H.

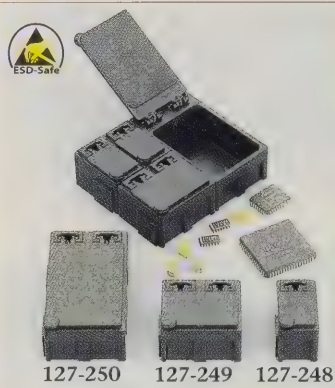


119-765
(15 Drawers)



119-766
(9 Drawers)

Part No.	No. of Drawers	Drawer Size (Inside)			Price
		H	W	L	
119-762	28	2-1/16"	2-3/16"	10-9/16"	\$86.95
119-763	20	2-1/18"	3-3/16"	10-9/16"	\$86.95
119-764	16	2-1/8"	4"	10-9/16"	\$86.95
119-765	15	3-1/16"	3-3/16"	10-9/16"	\$86.95
119-766	9	3-1/16"	5-3/16"	10-9/16"	\$86.95



127-250 127-249 127-248

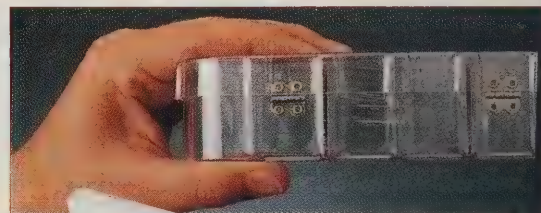
Conductive Storage Boxes

Unique Interlocking Modular Design

- Available in three sizes
- Create your own configuration as needed
- Spring-loaded lids (stay-open and close-tightly)
- Surface resistivity 10² to 10⁵ ohms/sq.

Ideal for kitting, storage and in-process handling of static-sensitive components including: SOICs, PLCCs, SOTs and other small devices.

Part No.	Inside Dimensions L x W x H	Price
127-250	1.6" x 1.1" x 0.65"	\$3.65
127-249	0.6" x 1.1" x 0.65"	\$3.20
127-248	0.5" x 0.5" x 0.65"	\$2.75



LITE-TUFF

Transparent Part Boxes

Virtually Unbreakable

- Riveted stainless-steel hinges
- Secure stacking

Part No. 116-950 comes with one stainless-steel closing clasp. Part No. 116-953, 116-937 and 116-938 have two stainless-steel clasps. Smaller sizes feature self-locking cover.

Part No.	Size	Compartments	Price
116-889	8" x 4-1/16" x 1-3/16"	18	\$6.65
116-890	8" x 4-1/16" x 1-3/16"	6	\$6.65
116-950	8-3/16" x 6-11/16" x 1-7/16"	6	\$17.45
116-953	9" x 4" x 1-1/2"	5	\$8.00
116-937	12-3/4" x 6-3/8" x 1-7/16"	18	\$21.85
116-938	12-3/4" x 6-3/8" x 1-7/16"	6	\$19.90



Six Drawer Tool/Storage Chest

Convenient Storage For Precision Tools, Small Parts and Components

■ Durable polystyrene

Drawers are easily removed with tongue-and-groove rails and fingertip releases. Front cover has padlock tab. Non-slip rubber feet, twin latches, luggage style handle. 19-1/2" x 10-3/8" x 15".



Part No.	Description	Price
352-060	Six Drawer Tool/Storage Chest	\$95.85

Tool/Parts Storage System

Offers Impressive Amount of Storage

Front drop-panel reveals four slide-out translucent parts storage boxes with adjustable interior partitions. Top lid with two removable and one fixed storage boxes. Large interior compartment with two medium and one deep storage box. Exterior tool holders on each side of case. Measures 20-1/2" x 12" x 14-1/2".



Part No.	Description	Price
352-804	Tool/Parts Storage Tote	\$63.95

Stacking Storage System

Organize Your Space the Way You Need It

- Complete system, (cabinet and boxes)
- Interlocking and stackable cabinet
- Resists most common chemicals and solvents

Constructed from durable polypropylene. Cabinet measures 14-1/2" x 15-1/2" x 15-3/4" and comes complete with pull-out trays and 5 removable boxes. Boxes are translucent for easy identification of contents, and features handles and snap-lock latches for easy transport. Each box measures 13-1/2" x 9" x 2-1/4" comes with 4 permanent dividers lengthwise and 16 movable dividers that can be placed where you need them, in 1/8" increments for ultimate flexibility.



Part No.	Description	Price
352-852	Storage Cabinet with 5 Boxes	\$103.95

Super Satchel Parts Organizer

- Heavy-duty steel cabinet with sliding shelves

Feature clear lids for easy inventory of contents, positive latches and comfortable carrying handle. Cases measures 18-1/2" x 13" x 3" and cabinet measures 20-1/4" x 15-3/4" x 14-3/4".

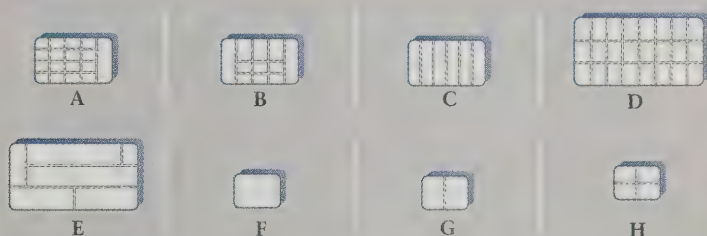
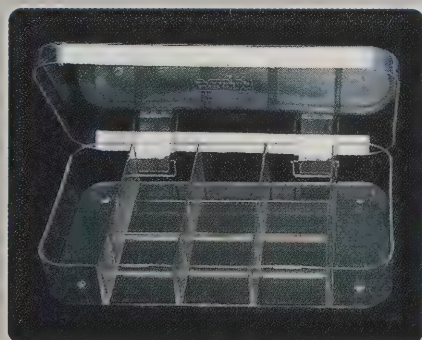


Part No.	Description	Price
352-003	Case with 8-32 Compartments	\$25.55
352-004	Case with 24 Compartments	\$24.50
352-005	Case with 21 Compartments	\$23.95
352-006	Case with 4-16 Compartments	\$25.50
352-007	Cabinet only (fits any four cases)	\$74.95

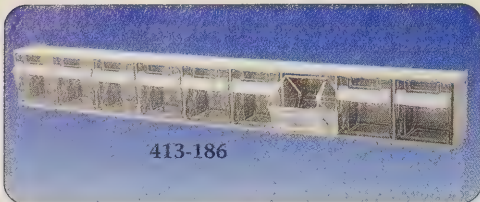
Mighty Tuff® Compact Compartmented Boxes

Ideal for Tool Kits, Packaging and Storage

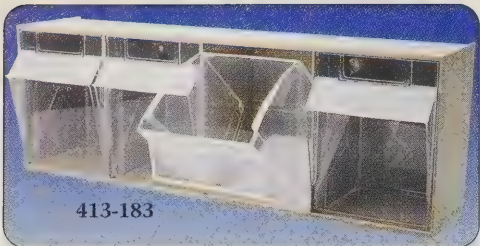
Molded from sturdy, transparent cellulose propionate featuring rust-proof metal hinges. Virtually unbreakable and highly resistant to oil, gasoline and most common chemicals and solvents. Ideal for tool kits, industrial packaging and storage.



Part No.	Key	Inside Dimensions L x W x H	Price
352-526	A	7 x 4 x 1-1/16"	\$6.50
352-527	B	7 x 4 x 1-1/16"	\$6.40
352-528	C	7 x 4 x 1-1/16"	\$6.10
352-529	D	11-7/8 x 5-7/8 x 1-7/16"	\$10.30
352-530	E	11-7/8 x 5-7/8 x 1-7/16"	\$10.90
352-500	F	4-3/8 x 2-5/8 x 1-1/16"	\$5.70
352-202	G	4-3/8 x 2-5/8 x 1-1/16"	\$6.05
352-504	H	4-3/8 x 2-5/8 x 1-1/16"	\$5.70



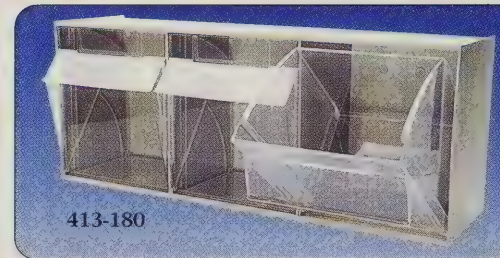
413-186



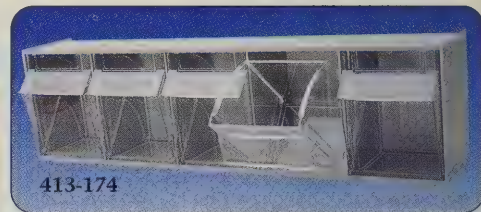
413-183



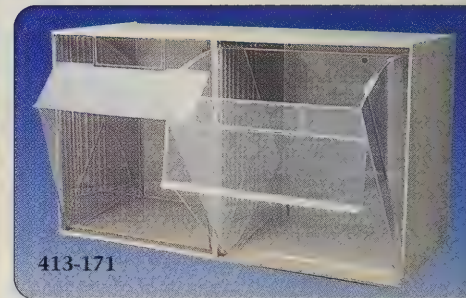
413-177



413-180



413-174



413-171

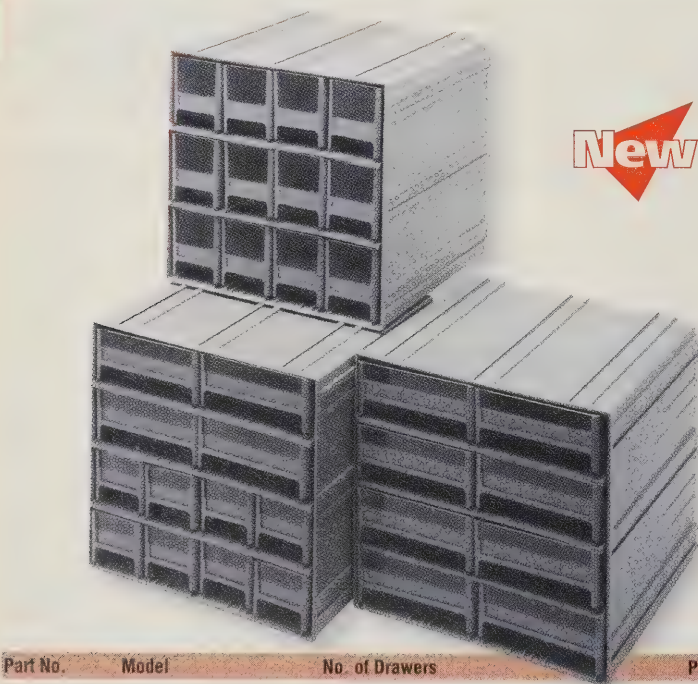
Clear Tip-Out Bin System™

**Stay Organized and Save Time
Locating Parts and Supplies**

- Six modular sizes
- Mountable
- Stackable
- Slotted label holder
- Free standing

Ideal for manufacturing, inventory control and assembly operations. Bins tip-open to a 45° angle for easy access to stored items. Bins can be removed for filling and cleaning. Products available in ivory as shown above, also available in white or gray ask your sale person.

Part No.	Model	Outside Dimensions L x W x H	No. of Bins	Bin Size	Price
413-186	QTB3091	23-5/8" x 2-1/2" x 3-1/8"	9	2-3/16" x 1-3/4" x 2-1/2"	\$12.00
413-183	QTB3061	23-5/8" x 3-5/8" x 4-1/2"	6	3-1/2" x 2-5/8" x 3-3/4"	\$14.25
413-180	QTB3051	23-5/8" x 5-1/4" x 6-1/2"	5	4-1/4" x 3-3/4" x 5-3/4"	\$25.70
413-177	QTB3041	23-5/8" x 6-5/8" x 8-1/8"	4	5-5/8" x 5" x 7-1/2"	\$33.25
413-174	QTB3031	23-5/8" x 7-3/4" x 9-1/2"	3	7-3/8" x 5-7/8" x 8-5/8"	\$36.50
413-171	QTB3021	23-5/8" x 11-7/8" x 13-7/8"	2	11-1/16" x 8-7/8" x 13-5/8"	\$119.95



New

Interlocking Modular Storage Cabinets

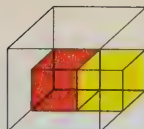
Organize and Customize all Your Storage Needs

- Nine preconfigured drawer cabinets
- Interlock horizontally and vertically
- Wall and rack mountable

Constructed from high impact polystyrene cabinets offer removable drawers which will not rust or corrode. Drawers feature recessed handles with slotted label holder, clear window for easy identification of contents and seven divider slots to divide into multiple compartments. Drawers come complete with two dividers per drawer. Additional dividers sold separately. Overall cabinet dimensions 11-3/8" D x 11-3/4" W x 11" H.

Part No.	Model	No. of Drawers	Price
424-813	QIC-161	16	\$71.75
424-814	QIC-122	12	\$61.80
424-815	QIC-83	8	\$54.35
424-816	QIC-64	6	\$49.80
424-817	QIC-8143	12	\$65.22
424-818	QIC-12123	14	\$68.55
424-819	QIC-4163	10	\$59.85
424-820	QIC-8224	10	\$58.95
424-821	QIC-4244	8	\$54.40

Storage Cabinet Drawer Specifications		
Part No.	Number of Drawers	Drawer Size L x W x H
424-813	16	11" x 2-3/4" x 2-1/2"
424-814	12	11" x 2-3/4" x 3-5/16"
424-815	8	11" x 5-5/8" x 2-1/2"
424-816	6	11" x 5-5/8" x 3-5/16"
424-817	12	(8) of 11" x 2-3/4" x 2-1/2" (4) of 11" x 5-5/8" x 2-1/2"
424-818	14	(12) of 11" x 2-3/4" x 2-1/2" (2) of 11" x 5-5/8" x 2-1/2"
424-819	10	(4) of 11" x 2-3/4" x 2-1/2" (6) of 11" x 5-5/8" x 2-1/2"
424-820	10	(8) of 11" x 2-3/4" x 3-5/16" (2) of 11" x 5-5/8" x 3-5/16"
424-821	8	(4) of 11" x 2-3/4" x 3-5/16" (4) of 11" x 5-5/8" x 3-5/16"



QUANTUM™
STORAGE
SYSTEMS

STORAGE BINS

Black Conductive Shelf Bins

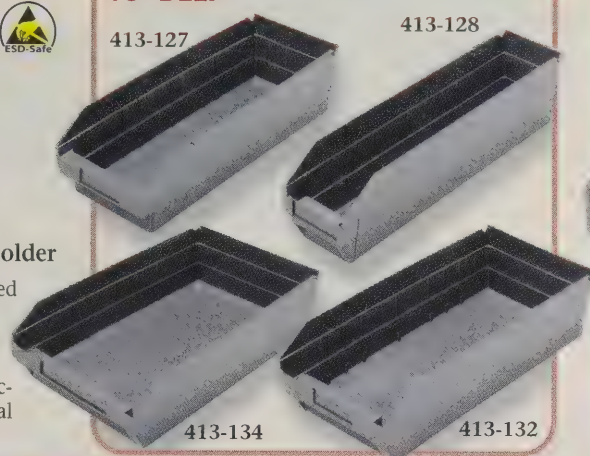


Shaped For Quick Access to Parts

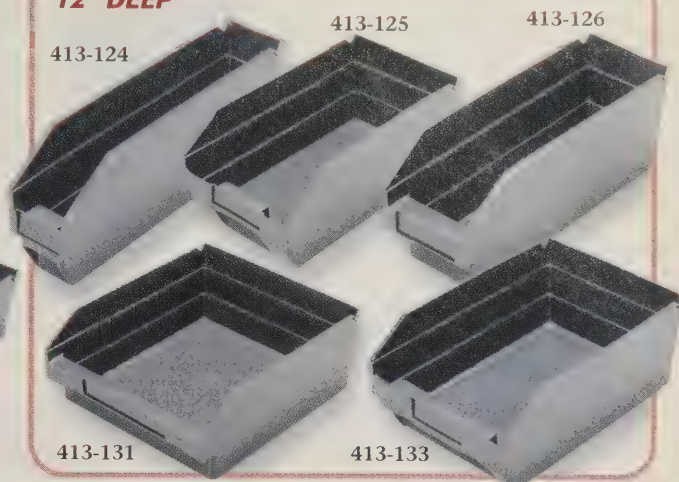
- Designed for 12", 18" and 24" deep shelves
- Empty bins "nest" to save space
- Built in slotted label holder

Molded with a carbonfilled copolymer polypropylene black material with a surface resistivity <10⁵ ohms/sq. they are permanently conductive and unaffected by normal cleansers and humidity.

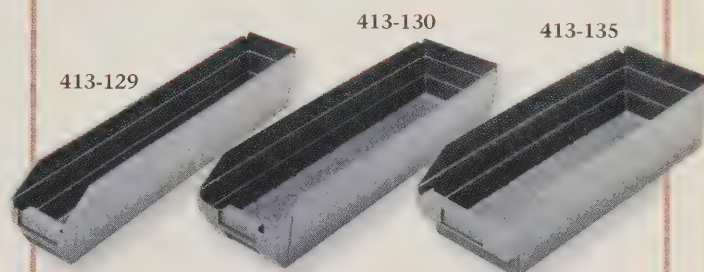
18" DEEP



12" DEEP



24" DEEP



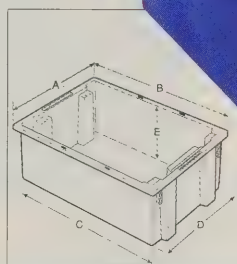
Part No.	Model	Outside Dimensions L x W x H	Inside Dimensions L x W x H	Carton Quantity	Price Each *
413-124	QSB100CON	11-7/8" x 2-3/4" x 4"	10-3/4" x 2-1/8" x 3-7/8"	36	\$4.10
413-125	QSB101CON	11-7/8" x 4-1/8" x 4"	10-3/4" x 3-1/4" x 3-7/8"	36	\$7.60
413-126	QSB102CON	11-7/8" x 6-5/8" x 4"	10-3/4" x 5-1/2" x 3-7/8"	30	\$11.00
413-131	QSB107CON	11-7/8" x 8-1/8" x 4"	10-3/4" x 7-1/2" x 3-7/8"	20	\$18.90
413-133	QSB109CON	11-7/8" x 11-1/8" x 4"	10-3/4" x 10-3/8" x 3-7/8"	8	\$16.00
413-127	QSB103CON	17-7/8" x 4-1/8" x 4"	16-5/8" x 3-1/4" x 3-7/8"	20	\$15.60
413-128	QSB104CON	17-7/8" x 6-5/8" x 4"	16-5/8" x 5-1/2" x 3-7/8"	20	\$20.00
413-132	QSB108CON	17-7/8" x 8-1/8" x 4"	16-5/8" x 7-1/2" x 3-7/8"	10	\$18.87
413-134	QSB110CON	17-7/8" x 11-1/8" x 4"	16-5/8" x 10-3/8" x 3-7/8"	8	\$24.30
413-129	QSB105CON	23-7/8" x 4-1/8" x 4"	22-1/4" x 3-1/4" x 3-7/8"	16	\$15.61
413-130	QSB106CON	23-7/8" x 6-5/8" x 4"	22-1/4" x 5-1/2" x 3-7/8"	8	\$22.30
413-135	QSB114CON	23-7/8" x 8-1/8" x 4"	22-1/4" x 7-1/2" x 3-7/8"	6	\$27.83
413-508	QSB116CON	23-7/8" x 11-1/8" x 4"	22-1/4" x 10-3/8" x 3-7/8"	6	\$33.11

* Price Each is based on purchase of carton quantity. For less than carton quantity prices will include a broken carton fee.

Stack and Nest Totes

- Nestable
- Stackable
- Optional lids

Molded from a high density polyethylene, totes will stack with or without lids and when turned 180° totes will nest for easy storage. Features a textured non-slip grip bottom and withstand a temperature range from -10° F to 250° F. Optional lids available to protect container contents. Specify bin/lid color with order. Append appropriate suffix to the part number shown to indicate color preference with order; blue (B), red (R), grey (G). One color per carton.



413-532

413-521

413-535

413-519

413-517

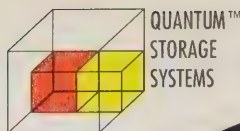
Totes

Lids

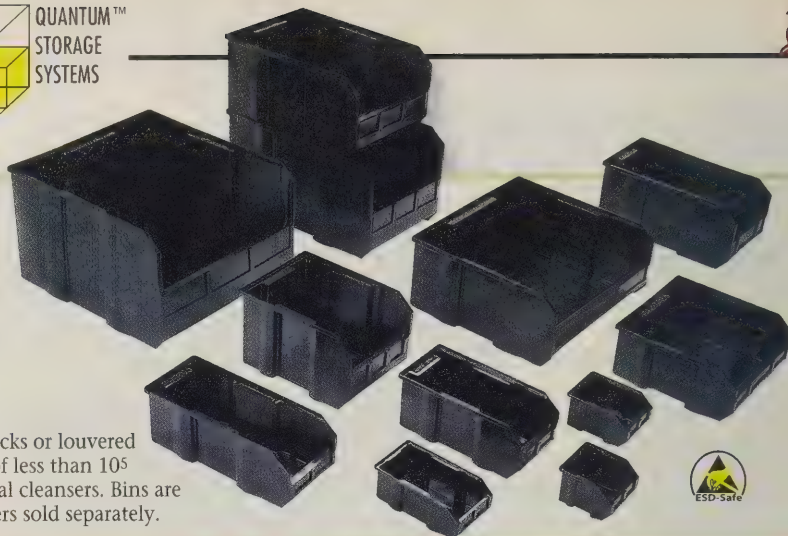
Part No.	Model	Outside Dimensions L x W x H	Inside Dimensions A x B x C x D x E	Carton Quantity	Price Each *	Part No.	Model	Carton Quantity	Price Each *
413-517	SNT180	18" x 11" x 6"	10" x 16" x 15-1/4" x 9-3/8" x 5-7/8"	6	\$7.21	413-526	LID181	6	\$4.55
413-518	SNT185	18" x 11" x 9"	10" x 16" x 15-1/8" x 9-1/8" x 8-7/8"	6	\$8.61	413-527	LID191	6	\$6.09
413-519	SNT190	19-1/2" x 15-1/2" x 10"	14-1/2" x 17" x 16" x 13-1/4" x 9-7/8"	6	\$13.41	413-528	LID201	6	\$6.79
413-520	SNT195	19-1/2" x 15-1/2" x 13"	14-1/2" x 17" x 15-7/8" x 13-3/8" x 12-7/8"	6	\$13.93	413-529	LID231	3	\$12.08
413-521	STN200	19-1/2" x 13-1/2" x 8"	12-3/8" x 17-7/8" x 16-3/8" x 11-1/2" x 7-7/8"	6	\$11.94	413-530	LID241	3	\$12.88
413-532	SNT225	23-1/2" x 19-1/2" x 10"	18-1/4" x 20-7/8" x 19-3/8" x 16-7/8" x 9-7/8"	3	\$22.70	413-531	LID301	3	\$19.93
413-533	SNT230	23-1/2" x 19-1/2" x 13"	18-1/8" x 20-7/8" x 19-1/2" x 16-7/8" x 12-7/8"	3	\$27.07				
413-534	SNT240	23-1/2" x 15-1/2" x 12"	14-1/4" x 20-7/8" x 19-5/8" x 13" x 11-7/8"	3	\$24.58				
413-535	SNT300	29-1/2" x 19-1/2" x 15"	18-1/4" x 26-5/8" x 25-1/8" x 16-5/8" x 14-7/8"	3	\$46.39				

* Price Each is based on purchase of carton quantity. For less than carton quantity prices will include a broken carton fee.

STORAGE BINS



Shown with
Optional Dividers



Conductive Parts Bins

Protect Your Static-Sensitive Components

Conductive bins stack together, fit on shelving or hang on storage racks or louvered panels. Made of a carbon filled polypropylene with a surface resistivity of less than 10^5 ohms./sq. they are permanently conductive and are unaffected by normal cleansers. Bins are shaped for easy part access and removal. Large label area in front. Dividers sold separately.

Part No.	Inside Dimensions			Outside Dimensions			Carton Quantity	Price Each*	Dividers		
	L	W	H	L	W	H			Part No.	Carton Quantity	Price Each*
405-540	3-3/16"	3-7/16"	2-13/16"	4-1/2"	4-1/8"	3"	24	\$2.61	405-541	6	\$1.16
405-542	4-3/4"	3-7/16"	2-13/16"	5-1/2"	4-1/8"	3"	24	\$2.43	405-543	6	\$1.65
405-544	6-3/4"	3-7/16"	2-13/16"	7-1/2"	4-1/8"	3"	24	\$3.15	405-545	6	\$1.72
405-552	9"	6-9/16"	6-3/4"	11"	8-1/4"	7"	6	\$21.32	405-553	6	\$5.11
405-550	9"	10-3/8"	4-13/16"	11"	11"	5"	6	\$14.88	405-551	6	\$2.84
405-546	10-1/4"	4-3/8"	4-3/4"	11"	5-1/2"	5"	12	\$9.77	405-547	6	\$2.84
405-548	11-1/4"	4-3/8"	4-3/4"	13-1/2"	5-1/2"	5"	12	\$13.72	405-549	6	\$3.08
405-558	13-5/8"	10-1/4"	7-3/4"	16"	11"	8"	4	\$59.83	405-559	6	\$5.92
405-554	14"	6-9/16"	6-3/4"	14-3/4"	8-1/4"	7"	12	\$22.37	405-555	6	\$6.02
405-556	14"	15-3/4"	6-3/4"	14-3/4"	16-1/2"	7"	6	\$36.09	405-557	6	\$6.02
405-560	15-5/8"	10-1/4"	9-3/4"	18"	11"	10"	4	\$66.89	405-561	6	\$9.14
405-562	17-1/8"	14-3/4"	10-1/4"	18"	16-1/2"	11"	3	\$100.82	405-563	6	\$9.03

* Purchase these bins in carton quantity and save up to 30% than price shown. Click on part number to see your savings per bin in carton quantity.

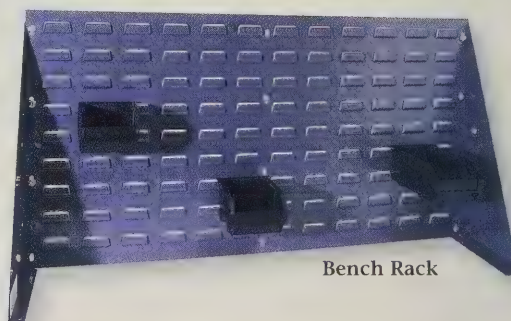


Conductive Hanging Systems

Designed to accept the conductive bins shown on this page. Many different configurations can be used for your specific storage needs. The table below shows how many bins of each model can fit on the panels. All systems are formed from heavy duty gauge cold rolled steel and have a dark grey baked-enamel conductive coating.



Louvered Panel



Bench Rack

Conductive Louvered Panels

Louvered panels may be mounted on any suitable surface. Bins must be ordered separately.

Part No.	Model	Dimensions L x H	Price
409-612	QLP1819CON	18" x 19"	\$42.10
409-611	QLP3619CON	36" x 19"	\$73.90

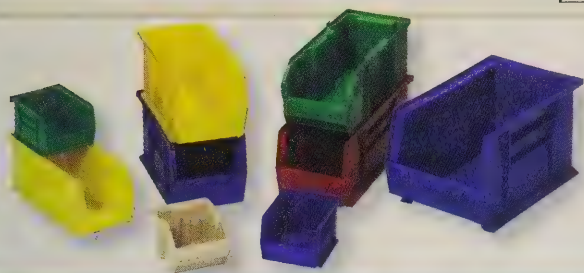
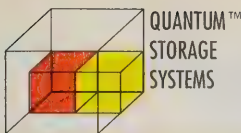
Conductive Bench Racks

May be positioned on workstations. Bins must be ordered separately.

Part No.	Model	Dimensions L x W x H	Price
409-610	QBR2721CON	27" x 8" x 21"	\$94.80
409-609	QBR3619CON	36" x 8" x 19"	\$105.35

Total quantities of same-size bins that are accepted by Louvered Panels and Bench Racks

	Dimensions (inches)	Conductive Parts Bins (shown above)									
		405-540	405-542	405-544	405-546	405-550	405-552	405-548	405-554	405-556	405-558
Louvered Panel - 409-612	18 x 19	16	16	16	9	-	-	9	-	-	-
Louvered Panel - 409-611	36 x 19	32	32	32	18	9	8	18	8	4	6
Bench Rack - 409-610	27 x 8 x 21	24	24	24	12	6	-	12	-	-	-
Bench Rack - 409-609	36 x 8 x 19	32	32	32	18	9	8	18	8	4	-



Plastic Parts Bins

Ultra Strong and Versatile Containers

■ Large label area in front

■ Dividers sold separately

Stack on top of one another, hang on louvred panels, rails and fits on racks and carts. Bins are made from high density polypropylene/polyethylene, resist acids and alkalis and are completely waterproof. Dividers sold separately. Append appropriate suffix to the part number shown to indicate color preference with order; blue (L), red (R), yellow (Y), ivory (I) and green (G). One color per carton.

Plastic Parts Bins									Dividers		
Part No.	Inside Dimensions			Outside Dimensions			Carton Quantity	Price Each*	Part No.	Carton Quantity	Price Each*
	Length	Width	Height	Length	Width	Height					
406-688	3-3/16"	3-7/16"	2-13/16"	4-1/2"	4-1/8"	3"	24	\$0.78	413-625	6	\$0.56
406-689	4-3/4"	3-7/16"	2-13/16"	5-1/2"	4-1/8"	3"	24	\$0.75	413-626	6	\$0.56
406-690	6-3/4"	3-7/16"	2-13/16"	7-1/2"	4-1/8"	3"	24	\$1.41	413-627	6	\$0.67
406-694	9"	6-9/16"	6-3/4"	11"	8-1/4"	7"	6	\$5.78	413-631	6	\$1.30
406-693	9"	10-3/8"	4-13/16"	11"	11"	5"	6	\$5.15	413-630	6	\$1.09
413-747	9-3/4"	15"	4-3/4"	11"	16-1/2"	5"	6	\$6.86	413-748	6	\$0.95
406-691	10-1/4"	4-3/8"	4-3/4"	11"	5-1/2"	5"	12	\$3.64	413-628	6	\$1.09
406-692	11-1/4"	4-3/8"	4-3/4"	13-1/2"	5-1/2"	5"	12	\$4.34	413-629	6	\$1.26
406-697	13-5/8"	10-1/4"	7-3/4"	16"	11"	8"	4	\$13.79	413-634	6	\$3.01
406-695	14"	6-9/16"	6-3/4"	14-3/4"	8-1/4"	7"	12	\$6.86	413-632	6	\$1.65
406-696	14"	15-3/4"	6-3/4"	14-3/4"	16-1/2"	7"	6	\$9.87	413-633	6	\$1.61
413-744	14-1/16"	4-3/8"	4-3/4"	14-3/4"	5-1/2"	5"	12	\$4.45	413-677	6	\$1.26
406-698	15-5/8"	10-1/4"	9-3/4"	18"	11"	10"	4	\$18.70	413-635	6	\$3.15
413-745	17-1/8"	6-3/4"	8-1/4"	18"	8-1/4"	9"	6	\$11.62	413-679	6	\$2.87
406-699	17-1/8"	14-3/4"	10-1/4"	18"	16-1/2"	11"	3	\$24.06	413-636	6	\$3.15
413-746	18-1/2"	11"	5-5/8"	19-3/4"	12-3/8"	5-7/8"	6	\$12.15	413-743	6	\$3.05

* Price Each is based on purchase of carton quantity. For less than carton quantity, prices will include a broken carton fee.

Bench Top Pick Rack

Complete Package (includes Rack and Bins)

■ Measures 12" D x 36" W x 21" H

Sloped shelving provides easy access to parts and components. Constructed from 22 gauge steel with a grey baked-enamel finish which will not rust or corrode. Rack is shipped "knocked down". Specify bin color with order. Append appropriate suffix to the part number shown to indicate color preference with order; blue (B), red (R), yellow (Y) or ivory (I). One color per rack.



Part No.	Model	No. of Bins	Bin Size	Price
413-514	QPRHA-101	24	11-7/8" x 4-1/8" x 4"	\$133.15
413-515	QPRHA-102	15	11-7/8" x 6-5/8" x 4"	\$145.05

Single Sided Pick Rack

Complete Package (includes Rack and Bins)

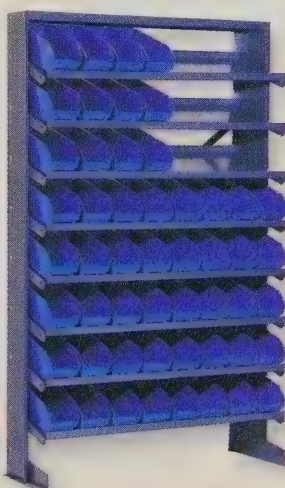
■ 400 lbs. capacity

■ Measures 12" D x 36" W x 60" H

■ Easy access to parts and components

Constructed from 22 gauge steel with a grey baked-enamel finish which will not rust or corrode. Rack is shipped "knocked down". Specify bin color with order. Append appropriate suffix to the part number shown to indicate color preference with order; blue (B), red (R), yellow (Y) or ivory (I). One color per carton.

Part No.	Model	No. of Bins	Bin Size	Price
413-509	QPRS-101	64	11-7/8" x 4-1/8" x 4"	\$258.70
413-510	QPRS-102	40	11-7/8" x 6-5/8" x 4"	\$293.80



48" Wide Cabinet with Bins

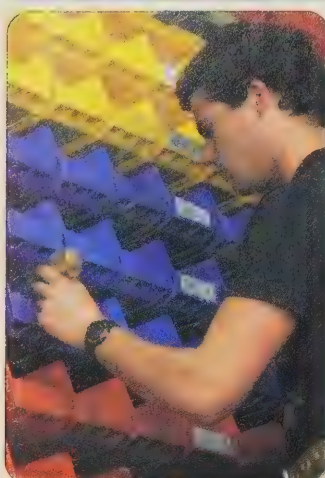
Provides a Secure Environment For Parts and Tools

■ Ships completely assembled ■ 3 point locking handle with keys

■ 14 gauge all-welded construction ■ Gray baked-enamel finish

Comes complete with 171 bins; (64) of Part No. 406-689, (64) of Part No. 406-690, (24) of Part No. 406-691, (13) of Part No. 406-695 and (6) of Part No. 406-696 (one color bin per cabinet). Cabinet measures 48" W x 24" D x 78" H. Also available 36" wide version ask your sales person for details.

Part No.	Description	Price
423-500	48" Wide Cabinet with Blue Bins	\$1,414.60
423-501	48" Wide Cabinet with Yellow Bins	\$1,414.60
423-502	48" Wide Cabinet with Green Bins	\$1,414.60
423-503	48" Wide Cabinet with Red Bins	\$1,414.60
423-504	48" Wide Cabinet with Ivory Bins	\$1,414.60
423-505	48" Wide Cabinet with Black Bins	\$1,414.60
423-543	48" Wide Cabinet with Black Conductive Bins	\$2,354.45



Plastic Parts Bins

Versatile Bins: Stack, Hang or Use on Shelves

- Large label holder
- Will not rust or corrode

Molded from heavy-duty polypropylene bins resist acids, alkalis and solvents. Append appropriate suffix to the part number shown to indicate color preference with order; blue (L), red (R), yellow (Y). Available one color per carton.

Part No.	Model	Inside Dimensions L x W x H	X	Outside Dimensions L x W x H	Carton Quantity	Price Per Carton
119-809	30-210	4-3/4" x 3-7/16" x 2-13/16"	4"	5-3/8" x 4-1/8" x 3"	24	\$26.40
119-813	30-220	6-3/4" x 3-7/16" x 2-13/16"	6"	7-3/8" x 4-1/8" x 3"	24	\$47.80
119-817	30-230	10-1/4" x 4-3/8" x 4-3/4"	9"	10-7/8" x 5-1/2" x 5"	12	\$59.55
403-344	30-235	10-1/4" x 10" x 4-3/4"	9"	10-7/8" x 11" x 5"	6	\$45.80
403-343	30-239	10" x 6-9/16" x 6-3/4"	8"	10-3/4" x 8-1/4" x 7"	6	\$49.50
119-820	30-240	14" x 6-9/16" x 6-3/4"	12"	14-3/4" x 8-1/4" x 7"	12	\$117.25
119-823	30-250	14" x 14-3/4" x 6-3/4"	12"	14-3/4" x 16-1/2" x 7"	6	\$82.30
119-826	30-265	17-1/8" x 6-1/2" x 8-3/4"	14-1/2"	18" x 8-1/8" x 9"	6	\$98.10
119-829	30-270	17-1/8" x 14-7/8" x 10-3/4"	13-3/4"	18" x 16-1/2" x 11"	3	\$74.25

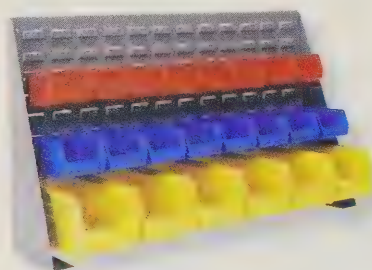


Double-Sided Rail Rack

- Measures 36" L x 20" W x 53" H
- 16-gauge steel
- Twelve-rails
- Free-standing or mobile kit available
- 500 lb. capacity

Accepts one of the following configurations: 192 bins of Model 30-210 or 30-220; 48 bins of Model 30-239 or 30-240 or 24 bins of Model 30-250. Bins must be ordered separately. If you use the rack as a stationary rack we recommend you secure it to the wall or floor. An optional Mobile Kit 119-832 (includes: reinforcing braces, handle and locking wheel casters) converts the stationary rack into a mobile cart. Bins ordered separately.

Part No.	Model	Description	Price
403-352	30-012	Double-Sided Bin Rack	\$185.00
119-832	30-424	Mobile Kit	\$88.50



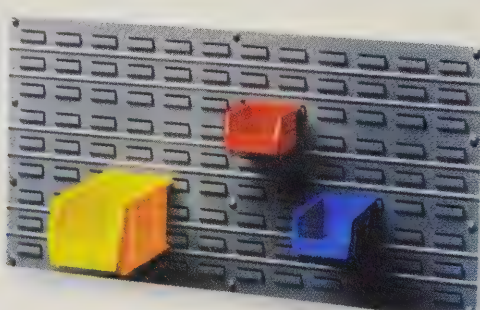
Louvered Racks

Ideal For Workstations and Benches

- Constructed from 16-gauge steel
- Free standing
- Wall-mounted
- Single-sided

Model 98-600 measures 27-3/4" L x 8" W x 21" H and accepts one of the following configurations. 24 bins of Model 30-210 or 30-220; 12 bins of Model 30-230. Model 98-636 measures 36" L x 8" W x 21" H and accepts one of the following configurations. 40 bins of Model 30-210 or 30-220; 18 bins of Model 30-230. Bins ordered separately.

Part No.	Model	Description	Carton Quantity	Price
119-892	98-600	27" Bench Rack	1	\$52.20
401-034	98-636	36" Bench Rack	1	\$56.95



Louvered Panel

Wall Mounting, Saves Room on Your Bench

- Measures 35-3/4" L x 19" H
- Constructed from 16-gauge steel
- Single-sided

Accepts one of the following configurations: 32 bins of Model 30-210 or 30-220; 18 bins of Model 30-230; 9 bins of Model 30-235; 8 bins of Model 30-239 or 30-240; 4 bins of Model 30-250. Bins ordered separately.

Part No.	Model	Description	Carton Quantity	Price
403-394	30-136	Louvered Panel	1	\$37.25

Double-Sided Louvered Rack

Permits Bins to Be Hung According to Your Needs

- Measures 35-3/4" L x 32" W x 75-1/8" H
- Free-standing
- 2000 lb. capacity

Rack accepts one of the following configurations: 288 bins of Model 30-210 or 30-220; 144 bins of Model 30-230; 72 bins of Model 30-235 or 30-239 or 30-240. 36 bins of Model 30-250. Bins must be ordered separately. We recommend you secure this rack to the wall or floor. Bins ordered separately.

Part No.	Model	Description	Price
403-362	30-653	Double-Sided Louvered Rack	\$550.00

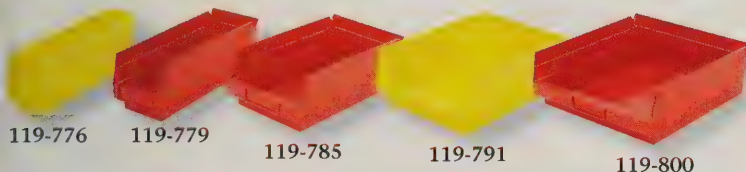


Shelf Bins

Designed For Use On 12", 18" and 24" Shelves

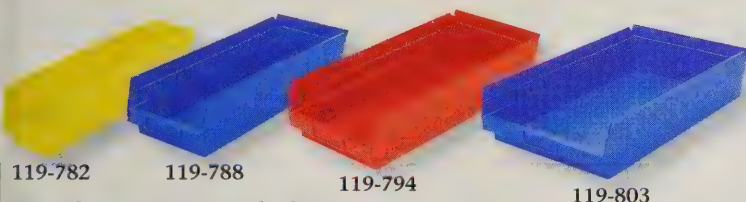
- 4" high
- Molded-in label holder
- Shaped for easy part access and removal
- Optional bin dividers sold separately

Molded from heavy duty polypropylene with built-in "hanglock" lets bins tilt out for complete access. Append appropriate suffix to the part number shown to indicate color preference with order; blue (L), red (R), yellow (Y). One color per carton.



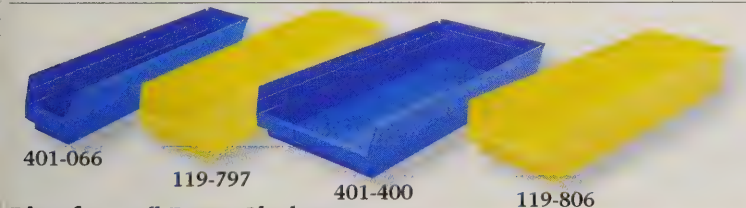
Bins for 12" Deep Shelves

Part No.	Model	Inside Dimensions L W	Outside Dimensions L W	Carton Quantity	Price Per Carton
119-776	30-110	10-1/4" 1-5/8"	11-5/8" 2-3/4"	24	\$34.45
119-779	30-120	10-1/4" 3"	11-5/8" 4-1/8"	24	\$37.85
119-785	30-130	10-1/4" 5-1/2"	11-5/8" 6-5/8"	12	\$29.85
119-791	30-150	10-1/4" 7-1/8"	11-5/8" 8-3/8"	12	\$32.20
119-800	30-170	10-1/4" 10"	11-5/8" 11-1/8"	12	\$48.50



Bins for 18" Deep Shelves

Part No.	Model	Inside Dimensions L W	Outside Dimensions L W	Carton Quantity	Price Per Carton
119-782	30-128	16-1/2" 3"	17-7/8" 4-1/8"	12	\$26.00
119-788	30-138	16-1/2" 5-1/2"	17-7/8" 6-5/8"	12	\$36.80
119-794	30-158	16-1/2" 7-1/8"	17-7/8" 8-3/8"	12	\$49.95
119-803	30-178	16-1/2" 10"	17-7/8" 11-1/8"	12	\$79.85



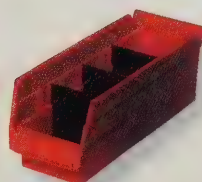
Bins for 24" Deep Shelves

Part No.	Model	Inside Dimensions L W	Outside Dimensions L W	Carton Quantity	Price Per Carton
401-066	30-124	22-1/8" 3"	23-5/8" 4-1/8"	12	\$50.95
119-797	30-164	22-1/8" 5-1/2"	23-5/8" 6-5/8"	6	\$36.80
401-400	30-174	22-1/8" 10"	23-5/8" 11-1/8"	6	\$53.70
119-806	30-184	22-1/8" 7-1/8"	23-5/8" 8-3/8"	6	\$44.80

Bin Dividers

- Fits all bins except models 30-110
- Bins accepts up to 7 dividers

Part No.	Model	Fit Bin Model	Qty.	Price
119-862	40-120	30-120, 30-124, 30-128	24	\$7.75
119-863	40-130	30-138, 30-164, 30-130	24	\$8.50
119-864	40-150	30-150, 30-158, 30-184	24	\$19.75
119-865	40-170	30-170, 30-178	24	\$24.35

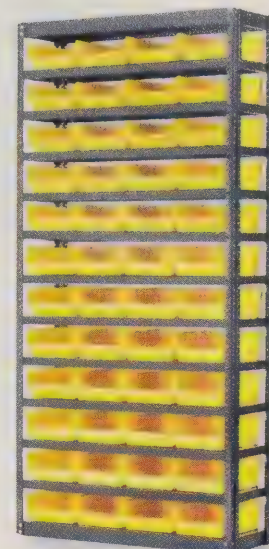


Shelf Bin Systems

Economical Shelving With Bins

- Available in two depths (12" and 18") and measures 36" W x 75" H
- 22-gauge steel with baked gray enamel finish
- Adjustable compression clips secure shelves
- 350 lbs. capacity per shelf

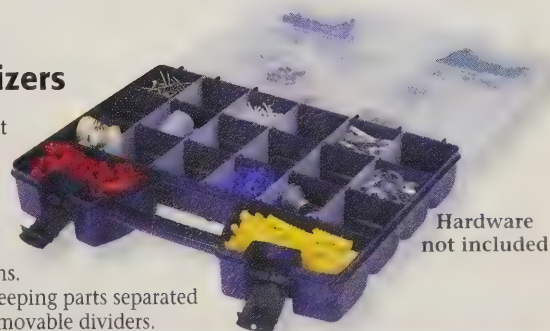
This system is easy to assemble with nuts and bolts only on the top and bottom shelves. Adjustable shelves use compression clips to set or change shelf height quickly. Include Akro-Mils yellow shelf bins with hopper fronts.



Part No.	Description	Bin Size	Price
425-402	12" Deep Shelving with 144 Bins (Model 30-110)	11-5/8" L x 2-3/4" W x 4" H	\$356.35
425-403	12" Deep Shelving with 96 Bins (Model 30-120)	11-5/8" L x 4-1/8" W x 4" H	\$313.90
425-404	12" Deep Shelving with 60 Bins (Model 30-130)	11-5/8" L x 6-5/8" W x 4" H	\$311.05
425-405	12" Deep Shelving with 48 Bins (Model 30-150)	11-5/8" L x 8-3/8" W x 4" H	\$295.15
425-406	12" Deep Shelving with 36 Bins (Model 30-170)	11-5/8" L x 11-1/8" W x 4" H	\$307.95
425-411	12" Deep Shelving without Bins	-	\$194.75
425-407	18" Deep Shelving with 96 Bins (Model 30-128)	17-7/8" L x 4-1/8" W x 4" H	\$399.00
425-408	18" Deep Shelving with 60 Bins (Model 30-138)	17-7/8" L x 6-5/8" W x 4" H	\$402.60
425-409	18" Deep Shelving with 48 Bins (Model 30-158)	17-7/8" L x 8-3/8" W x 4" H	\$418.15
425-410	18" Deep Shelving with 36 Bins (Model 30-178)	17-7/8" L x 11-1/8" W x 4" H	\$449.70
425-412	18" Deep Shelving without Bins	-	\$237.40

Lid Storage Parts Organizers

Lid compartment opens separately for small items while the main compartment under lid offers larger storage sections. Lids lock securely, keeping parts separated in adjustable and removable dividers. Molded-in handle.



Part No.	Description	Dimensions L x W x H	Compartments	Price
266-115	Parts Organizer	15" x 11-5/16" x 3-1/4"	11-46	\$16.45
266-118	Parts Organizer	18-1/4" x 13-3/8" x 3-5/8"	12-62	\$21.40

TOTE BOXES



OLYMPIC



Conductive and Static Dissipative Totes

■ Full ESD Protection

These injection molded tote boxes are stackable, may be compartmentalized with dividers, and come complete with snaps for ticket holders. Tote boxes are available in Bentron material (black, less than 10^5 ohms/sq.), or in Benstat material (blue, more than 10^5 and less than 10^{12} ohms/sq.). Optional Dividers and Covers (not included) are shown below.



Conductive and Static Dissipative "Slip-in" Interlocking Dividers

These dividers allow you to compartmentalize your tote box. They are slotted on 1-1/4" centers and are .10 inches thick. Available in Bentron material (black, less than 10^5 ohms/sq.), or in Benstat material (blue, more than 10^5 and less than 10^{12} ohms/sq.). Dividers are listed in tables below.



Snap-on Style Covers

The snap-on cover is formed on all sides to grip the tote box securely. Available in Bentron material (black, less than 10^5 ohms/sq.), or in Benstat material (blue, more than 10^5 and less than 10^{12} ohms/sq.). Covers are listed in tables below.



Insert-Style Covers

The insert cover drops in place below the top edge of the tote box. Ideal for stacking. Available in Bentron material (black, less than 10^5 ohms/sq.), or in Benstat material (blue, more than 10^5 and less than 10^{12} ohms/sq.). Covers are listed in tables below.

Bentron Conductive Material Black

It is a black conductive material with a surface resistivity of less than 10^5 ohms/sq.

Tote Box						Dividers					Snap On Covers				Insert Covers				
Part No.	Model	Inside Dimensions			Carton Qty.	Price ★ Each	Max. No. of Dividers per Tote	Part No.	Model	Carton Qty.	Price ★ Each	Part No.	Model	Carton Qty.	Price ★ Each	Part No.	Model	Carton Qty.	Price ★ Each
		L	W	H															
120-212	TB91035CAS	9.12"	6.50"	3.38"	48	\$12.40	7 on Width	120-187	DS91035CAS	96	\$2.20	120-157	C091000CAS	96	\$9.70	120-149	CI91000CAS	96	\$9.50
120-214	TB91060CAS	9.12"	6.50"	5.88"	24	\$18.55	5 on Length	120-167	DL91035CAS	96	\$2.40	120-157	C091000CAS	96	\$9.70	120-149	CI91000CAS	96	\$9.50
							7 on Width	120-189	DS91060CAS	96	\$1.80								
120-216	TB92035CAS	14.88"	9.25"	3.38"	24	\$20.60	5 on Length	120-169	DL91060CAS	96	\$2.80	120-159	C092000CAS	48	\$18.55	120-151	CI92000CAS	48	\$15.50
							11 on Width	120-191	DS92035CAS	96	\$2.40								
120-218	TB92050CAS	15.00"	15.00"	4.88"	12	\$34.00	7 on Length	120-171	DL92035CAS	96	\$2.90	120-161	C092050CAS	24	\$22.70	405-614	CI92050CAS	24	\$20.60
							11 on Width	120-193	DS92050CAS	96	\$4.05								
120-220	TB92060CAS	14.88"	9.25"	5.88"	12	\$25.80	11 on Length	120-193	DS92050CAS	96	\$4.05	120-159	C092000CAS	48	\$22.70	120-151	CI92000CAS	48	\$15.50
							11 on Width	120-195	DS92060CAS	96	\$3.10								
120-222	TB92080CAS	14.88"	9.25"	7.88"	6	\$31.95	7 on Length	120-175	DL92060CAS	96	\$4.05	120-159	C092000CAS	48	\$18.55	120-151	CI92000CAS	48	\$15.50
							11 on Width	120-197	DS92080CAS	96	\$3.95								
120-224	TB93030CAS	20.62"	15.62"	2.88"	12	\$43.30	7 on Length	120-177	DL92080CAS	96	\$5.70	120-163	C093000CAS	24	\$30.90	120-153	CI93000CAS	24	\$22.70
							15 on Width	120-199	DS93030CAS	96	\$3.50								
120-226	TB93050CAS	20.62"	15.62"	4.88"	6	\$49.45	11 on Length	120-179	DL93030CAS	96	\$4.75	120-163	C093000CAS	24	\$30.90	120-153	CI93000CAS	24	\$22.70
							15 on Width	120-201	DS93050CAS	96	\$4.15								
120-228	TB93060CAS	20.62"	15.62"	5.88"	6	\$51.50	11 on Length	120-181	DL93050CAS	96	\$5.20	120-163	C093000CAS	24	\$30.90	120-153	CI93000CAS	24	\$22.70
							15 on Width	120-203	DS93060CAS	96	\$4.45								
120-230	TB93080CAS	20.62"	15.62"	7.88"	4	\$62.85	11 on Length	120-183	DL93060CAS	96	\$5.70	120-163	C093000CAS	24	\$30.90	120-153	CI93000CAS	24	\$22.70
							15 on Width	120-205	DS93080CAS	96	\$5.80								
120-232	TB93120CAS	20.62"	15.62"	11.88"	3	\$76.25	11 on Length	120-185	DL93080CAS	96	\$7.25	120-163	C093000CAS	24	\$30.90	120-153	CI93000CAS	24	\$22.70
							15 on Width	120-205	DS93080CAS	96	\$5.80								
							11 on Length	120-185	DL93080CAS	96	\$7.25								

★ For orders less than carton quantity, add \$7.00 handling charge per part number.

Benstat Static Dissipative Material Blue

It is a blue, permanently static dissipative material that is clean room acceptable. Its surface resistivity is more than 10^5 and less than 10^{12} ohms/sq.

Tote Box						Dividers					Snap On Covers				Insert Covers				
Part No.	Model	Inside Dimensions			Carton Qty.	Price ★ Each	Max. No. of Dividers per Tote	Part No.	Model	Carton Qty.	Price ★ Each	Part No.	Model	Carton Qty.	Price ★ Each	Part No.	Model	Carton Qty.	Price ★ Each
		L	W	H															
120-211	TB91035BAS	9.12"	6.50"	3.38"	48	\$12.40	7 on Width	120-186	DS91035BAS	96	\$2.20	120-156	C091000BAS	96	\$9.70	120-148	CI91000BAS	96	\$9.50
120-213	TB91060BAS	9.12"	6.50"	5.88"	24	\$18.55	5 on Length	120-166	DL91035BAS	96	\$2.40	120-156	C091000BAS	96	\$9.70	120-148	CI91000BAS	96	\$9.50
							7 on Width	120-188	DS91060BAS	96	\$1.80								
120-215	TB92035BAS	14.88"	9.25"	3.38"	24	\$20.60	5 on Length	120-168	DL91060BAS	96	\$2.80	120-158	C092000BAS	48	\$18.55	120-150	CI92000BAS	48	\$15.50
							11 on Width	120-190	DS92035BAS	96	\$2.40								
120-217	TB92050BAS	15.00"	15.00"	4.88"	12	\$34.00	7 on Length	120-170	DL92035BAS	96	\$2.90	120-160	C092050BAS	24	\$22.70	405-613	CI92050BAS	24	\$20.60
							11 on Width	120-192	DS92050BAS	96	\$4.05								
120-219	TB92060BAS	14.88"	9.25"	5.88"	12	\$25.80	11 on Length	120-192	DS92050BAS	96	\$4.05	120-158	C092000BAS	48	\$18.55	120-150	CI92000BAS	48	\$15.50
							11 on Width	120-194	DS92060BAS	96	\$3.10								
120-221	TB92080BAS	14.88"	9.25"	7.88"	6	\$31.95	7 on Length	120-174	DL92060BAS	96	\$4.05	120-158	C092000BAS	48	\$18.55	120-150	CI92000BAS	48	\$15.50
							11 on Width	120-196	DS92080BAS	96	\$3.95								
120-223	TB93030BAS	20.62"	15.62"	2.88"	12	\$43.30	7 on Length	120-176	DL92080BAS	96	\$5.70	120-162	C093000BAS	24	\$30.90	120-152	CI93000BAS	24	\$22.70
							15 on Width	120-198	DS93030BAS	96	\$3.50								
120-225	TB93050BAS	20.62"	15.62"	4.88"	6	\$49.45	11 on Length	120-178	DL93030BAS	96	\$4.75	120-162	C093000BAS	24	\$30.90	120-152	CI93000BAS	24	\$22.70
							15 on Width	120-200	DS93050BAS	96	\$4.15								
120-227	TB93060BAS	20.62"	15.62"	5.88"	6	\$51.50	11 on Length	120-180	DL93050BAS	96	\$5.20	120-162	C093000BAS	24	\$30.90	120-152	CI93000BAS	24	\$22.70
							15 on Width	120-202	DS93060BAS	96	\$4.45								
120-229	TB93080BAS	20.62"	15.62"	7.88"	4	\$62.85	11 on Length	120-182	DL93060BAS	96	\$5.70	120-162	C093000BAS	24	\$30.90	120-152	CI93000BAS	24	\$22.70
							15 on Width	120-204	DS93080BAS	96	\$5.80								
120-231	TB93120BAS	20.62"	15.62"	11.88"	3	\$76.25	11 on Length	120-184	DL93080BAS	96	\$7.25	120-162	C093000BAS	24	\$30.90	120-152	CI93000BAS	24	\$22.70
							15 on Width	120-204	DS93080BAS	96	\$5.80								
							11 on Length	120-184	DL93080BAS	96	\$7.25								

★ For orders less than carton quantity, add \$7.00 handling charge per part number.



Stacking Tote Boxes

These injection molded tote boxes are stackable, may be compartmentalized with dividers, and come complete with snaps for ticket holders. The polypropylene boxes are gray in color, impact resistant, and have a high chemical resistivity. Optional dividers and covers (not included) are shown below.



Natural Polypropylene Material Gray

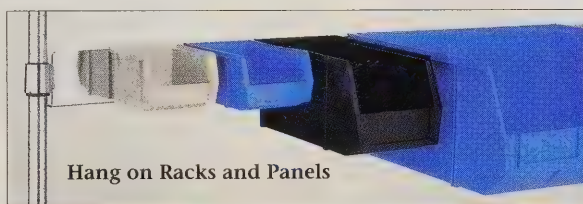
Tote Box							Dividers					Snap On Covers				Insert Covers			
Part No.	Model	Inside Dimensions			Carton Qty.	Price ★ Each	Max. No. of Dividers per Tote	Part No.	Model	Carton Qty.	Price ★ Each	Part No.	Model	Carton Qty.	Price ★ Each	Part No.	Model	Carton Qty.	Price ★ Each
		L	W	H															
412-079	TB91035NAT	9.12"	6.50"	3.38"	48	\$7.75	7 on Width 5 on Length	412-089 412-090	DS91035NAT DL91035NAT	96 96	\$1.15 \$1.25	412-713	CO91000CAS	96	\$3.95	412-717	CI91000NAT	96	\$3.85
412-080	TB91060NAT	9.12"	6.50"	5.88"	24	\$9.10	7 on Width 5 on Length	412-091 412-092	DS91060NAT DL91060NAT	96 96	\$1.35 \$1.45	412-713	CO91000CAS	96	\$3.95	412-717	CI91000NAT	96	\$3.85
412-081	TB92035NAT	14.88"	9.25"	3.38"	24	\$11.35	11 on Width 7 on Length	412-093 412-094	DS92035NAT DL92035NAT	96 96	\$1.25 \$1.60	412-714	CO92000NAT	48	\$5.90	412-718	CI92000NAT	48	\$4.65
412-082	TB92050NAT	15.00"	15.00"	4.88"	12	\$19.60	11 on Width 11 on Length	412-095 412-095	DS92050NAT DS92050NAT	96 96	\$2.00 \$2.00	412-715	CO92050NAT	24	\$7.35	412-719	CI92050NAT	24	\$6.30
412-083	TB92060NAT	14.88"	9.25"	5.88"	12	\$13.40	11 on Width 7 on Length	412-096 412-098	DS92060NAT DL92060NAT	96 96	\$1.90 \$2.20	412-714	CO92000NAT	48	\$5.90	412-718	CI92000NAT	48	\$6.30
412-084	TB92080NAT	14.88"	9.25"	7.88"	6	\$17.55	11 on Width 7 on Length	412-099 412-702	DS92080NAT DL92080NAT	96 96	\$2.30 \$2.40	412-714	CO92000NAT	48	\$5.90	412-718	CI92000NAT	48	\$4.65
412-085	TB93030NAT	20.62"	15.62"	2.88"	12	\$15.50	15 on Width 11 on Length	412-703 412-704	DS93030NAT DL93030NAT	96 96	\$2.40 \$2.80	412-716	CO93000NAT	24	\$13.40	412-720	CI93000NAT	24	\$8.70
412-086	TB93050NAT	20.62"	15.62"	4.88"	6	\$19.60	15 on Width 11 on Length	412-705 412-706	DS93050NAT DL93050NAT	96 96	\$2.50 \$2.90	412-716	CO93000NAT	24	\$13.40	412-720	CI93000NAT	24	\$8.70
412-087	TB93060NAT	20.62"	15.62"	5.88"	6	\$21.65	15 on Width 11 on Length	412-707 412-708	DS93060NAT DL93060NAT	96 96	\$2.50 \$3.00	412-716	CO93000NAT	24	\$13.40	412-720	CI93000NAT	24	\$8.70
412-088	TB93080NAT	20.62"	15.62"	7.88"	4	\$25.80	15 on Width 11 on Length	412-709 412-710	DS93080NAT DL93080NAT	96 96	\$2.60 \$3.20	412-716	CO93000NAT	24	\$13.40	412-720	CI93000NAT	24	\$8.70
174-535	TB93120NAT	20.62"	15.62"	11.88"	3	\$34.00	15 on Width 11 on Length	412-709 412-710	DS93080NAT DL93080NAT	96 96	\$2.60 \$3.20	412-716	CO93000NAT	24	\$13.40	412-720	CI93000NAT	24	\$8.70

* For orders less than carton quantity, add \$7.00 handling charge per part number.

Parts Bins

Natural Polypropylene, Gray

Injection molded polypropylene bins stack together, fit on shelving or hang on storage racks and louvered panels. Available in natural gray.



Hang on Racks and Panels

Part No.	Model	SizeLWH	Carton Quantity	Price Each*
413-581	SB90743NAT	7.38" x 4.12" x 3.00"	48	\$2.70
413-582	SB91055NAT	10.88" x 5.50" x 5.00"	24	\$7.25
413-583	SB91587NAT	14.75" x 8.25" x 7.00"	12	\$14.45
413-584	SB91516NAT	14.75" x 16.50" x 7.00"	6	\$20.60

* For orders less than carton quantity, add \$7 handling charge per Part No.



Static Dissipative Benstat, Blue

Injection molded polypropylene bins stack together, fit on shelving or hang on storage racks and louvered panels. Available in Benstat™ static dissipative, blue material is cleanroom acceptable. Its surface resistivity is more than 10⁵ and less than 10¹² ohms/sq.

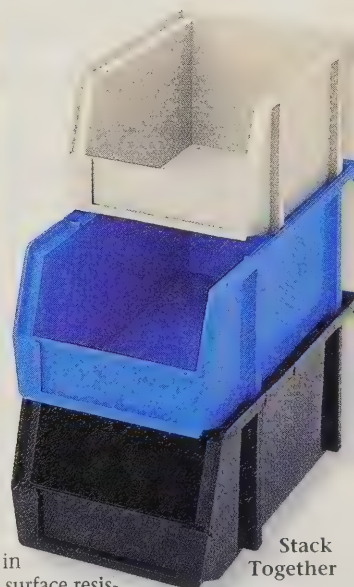
Part No.	Model	SizeLWH	Carton Quantity	Price Each*
119-928	SB90743BAS	7.38" x 4.12" x 3.00"	48	\$5.20
403-406	SB91055BAS	10.88" x 5.50" x 5.00"	24	\$13.40
403-407	SB91587BAS	14.75" x 8.25" x 7.00"	12	\$30.90
403-409	SB91516BAS	14.75" x 16.50" x 7.00"	6	\$25.80

* For orders less than carton quantity, add \$7 handling charge per Part No.



Conductive Bentrion, Black

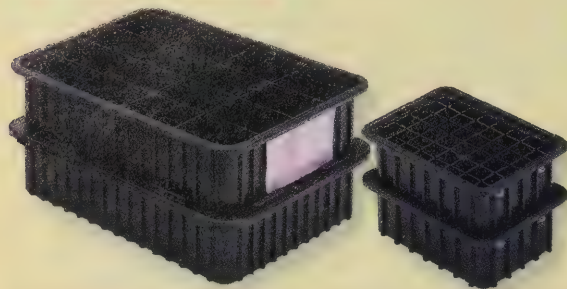
Injection molded polypropylene bins stack together, fit on shelving or hang on storage racks and louvered panels. Available in Bentrion™ conductive material, black with a surface resistivity of less than 10⁵ ohms/sq.



Stack Together

Part No.	Model	SizeLWH	Carton Quantity	Price Each*
119-929	SB90743CAS	7.38" x 4.12" x 3.00"	48	\$5.20
403-405	SB91055CAS	10.88" x 5.50" x 5.00"	24	\$13.40
403-408	SB91587CAS	14.75" x 8.25" x 7.00"	12	\$30.90
403-410	SB91516CAS	14.75" x 16.50" x 7.00"	6	\$25.80

* For orders less than carton quantity, add \$7 handling charge per Part No.



Conductive Divider Boxes

Strong Stacking Ridge and Ribbed Walls

- Stackable
- ESD-Safe
- Load capacity 40 lbs. per container

Boxes, dividers and covers are made from conductive black polypropylene material with a surface resistivity of less than 10^5 ohms/sq. Electrical properties are unaffected by solvents or humidity and totes do not outgas harmful contaminants. Totes divided into compartments by length and/or width, with optional dividers, at 1/4" intervals and come complete with snaps for card holders (sold separately). Optional covers protect product from impact, dust and chemicals. **Snap-on style cover** snaps easily and securely to grip tote box on all sides. **Insert-style cover** fits inside the container on the stacking ridge, ideal for stacking applications. Totes, dividers and covers sold separately.

Tote Box							Dividers				Snap on Cover			Insert Cover		
Part No.	Model	Inside Dimension Length	Inside Dimension Width	Inside Dimension Height	Carton Quantity	Price Each*	No. of Dividers Per Tote Box	Part No.	Model	Price Each*	Part No.	Model	Price Each*	Part No.	Model	Price Each*
413-656	DC1025-XL	9.1"	6.5"	2.4"	24	\$7.15	7 on Width	413-669	DV0825-XL	\$0.95	413-696	CDC1040-XL	\$3.35	413-695	CDC1000-XL	\$2.20
							5 on Length	413-670	DV1025-XL	\$0.95						
413-657	DC1035-XL	9.2"	6.4"	3.4"	16	\$7.75	7 on Width	413-671	DV0835-XL	\$0.95						
							5 on Length	413-672	DV1035-XL	\$1.10						
413-658	DC1050-XL	9.1"	6.4"	4.9"	16	\$9.50	7 on Width	413-673	DV0850-XL	\$1.10						
							5 on Length	413-674	DV1050-XL	\$1.45						
413-659	DC2025-XL	14.7"	9.1"	2.4"	12	\$10.95	11 on Width	413-670	DV1025-XL	\$0.95	413-698	CDC2040-XL	\$6.75	413-697	CDC2000-XL	\$3.55
							7 on Length	413-676	DV1625-XL	\$1.15						
413-660	DC2035-XL	14.8"	9.2"	3.4"	8	\$11.00	11 on Width	413-672	DV1035-XL	\$1.10						
							7 on Length	413-678	DV1635-XL	\$1.85						
413-661	DC2050-XL	14.8"	9.3"	4.9"	8	\$12.80	11 on Width	413-674	DV1050-XL	\$1.45						
							7 on Length	413-680	DV1650-XL	\$2.35						
413-662	DC2060-XL	14.9"	9.3"	5.9"	8	\$13.55	11 on Width	413-681	DV1060-XL	\$2.15						
							7 on Length	413-682	DV1660-XL	\$2.40						
413-663	DC2070-XL	14.8"	9.3"	6.9"	6	\$16.80	11 on Width	413-683	DV1070-XL	\$2.20						
							7 on Length	413-684	DV1670-XL	\$2.95						
413-664	DC2080-XL	14.8"	9.2"	7.9"	6	\$17.65	11 on Width	413-685	DV1080-XL	\$2.40						
							7 on Length	413-686	DV1680-XL	\$3.30						
413-665	DC3050-XL	20.1"	15.1"	4.9"	4	\$24.15	15 on Width	413-687	DV1750-XL	\$3.05	413-700	CDC3040-XL	\$11.55	413-699	CDC3040-XL	\$9.50
							11 on Length	413-688	DV2250-XL	\$2.70						
413-666	DC3060-XL	20.1"	15.1"	5.9"	4	\$27.00	15 on Width	413-689	DV1760-XL	\$2.70						
							11 on Length	413-690	DV2260-XL	\$3.10						
413-667	DC3080-XL	20.1"	15.1"	7.9"	4	\$31.60	15 on Width	413-691	DV1780-XL	\$3.10						
							11 on Length	413-692	DV2280-XL	\$3.80						
413-668	DC3120-XL	20.1"	15.1"	11.9"	3	\$37.60	15 on Width	413-693	DV17120-XL	\$6.20						
							11 on Length	413-694	DV22120-XL	\$6.60						

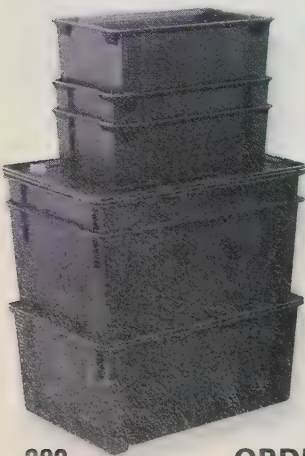
* For orders less than carton quantity, add \$3.00 handling charge per tote part number.

Conductive Nest and Stack Totes

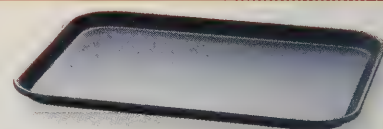
Will Not Dent, Bend or Warp

- Strong as steel on a weight ratio, yet lightweight
- Easy to clean
- Optional lids available

Protect sensitive electronic components and equipment from ESD at workstations, assembly lines and during material handling. Nest and stack design saves you valuable space (stack when full, nest when empty). Constructed from reinforced thermoset polyester composite material (FibreStat 2000). Provides a permanent volume resistivity of 10^5 ohms/sq. Unaffected by most detergents, mild acids and alkaline solutions.



Part No.	Description	O.D. Top L x W x D	Price
423-515	Tote	17-7/8" x 10-5/8" x 5"	\$21.90
423-516	Lid	17-7/8" x 10-5/8"	\$16.90
423-517	Tote	19-3/4" x 12-1/2" x 6"	\$25.60
423-518	Lid	19-3/4" x 12-1/2"	\$18.20
423-519	Tote	20-1/2" x 12-7/8" x 8"	\$27.00
423-520	Lid	20-1/2" x 12-7/8"	\$19.00
423-510	Tote	23-1/2" x 16-1/8" x 10-1/4"	\$40.70
423-511	Lid	23-1/2" x 16-1/8"	\$27.90
423-521	Tote	24-1/4" x 14-3/4" x 8"	\$32.10
423-522	Lid	24-1/4" x 14-3/4"	\$22.10
423-523	Tote	25-1/4" x 18" x 10"	\$44.70
423-524	Lid	25-1/4" x 18"	\$26.30
423-512	Tote	42-1/2" x 20" x 14-1/4"	\$88.60
423-513	Tote	42-1/2" x 20" x 7-1/2"	\$71.10
423-514	Lid	42-1/2" x 20"	\$43.50

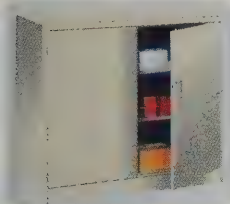


Conductive Assembly Trays

Effective ESD Protection for Transporting Components and Assemblies

Constructed from reinforced thermoset polyester composite material (FibreStat 2000). Provides a permanent volume resistivity of 10^5 ohms/sq. Excellent resistance to abrasion, chemicals and solder as well as the ability to carry heavy loads. Clean in steam or washer with a temperature range of -40° F to 250° F.

Part No.	O.D. Top L x W x D	Price
405-723	13-1/4" x 10-5/8" x 1"	\$16.20
418-269	16-3/8" x 12" x 1"	\$17.90
418-274	17-3/4" x 9" x 1"	\$17.90
418-273	17-3/4" x 11-3/4" x 1"	\$19.70
405-724	18" x 14" x 1"	\$18.55
405-725	19-1/2" x 19-1/2" x 1-1/4"	\$28.60
418-270	20-3/8" x 15-1/8" x 1"	\$21.60
418-271	21-7/8" x 16" x 1"	\$23.15
418-272	25-3/4" x 8-3/4" x 1-1/8"	\$20.05
405-728	25-3/4" x 17-7/8" x 1-1/8"	\$24.55
405-916	26" x 20" x 1-1/2"	\$34.00



Model 1035

48" Wide Heavy-Duty Storage Cabinet

Extra Wide, Constructed From Heavy Gauge Steel

- 400 lb. shelf capacity
- Available in dove gray or putty
- Shipped knocked down

Cabinets feature rounded front corners and double doors which swing 180° to permit full access of contents. Shelves offer a 400 lb. shelf capacity and are adjustable at 2" increments. Cabinets feature a three-point locking device and a "quiet door" feature. Two models to choose from. Model 1035 comes with two adjustable shelves and one fixed shelf. Model 1031 comes with four adjustable shelves and one fixed shelf. Prices do not include freight charges and all shipments are FOB manufacturer's plant. Shipping rates are available prior to shipment. Please call our Sales Department 1-800-225-5370.

Cabinets

Part No.	Model	Color	L x W x H	Shelves	Price
404-644	1035	Dove Gray	48" x 24" x 42"	Two	\$522.70
404-645	1035	Putty	48" x 24" x 42"	Two	\$522.70
404-642	1031	Dove Gray	48" x 24" x 78"	Four	\$599.00
404-643	1031	Putty	48" x 24" x 78"	Four	\$599.00

Extra Shelves

Part No.	Description	Color	Price
404-646	Shelf for 1031 and 1035	Dove Gray	\$55.35
404-647	Shelf for 1031 and 1035	Putty	\$55.35



SHIPPED
WITHIN 48 HOURS

36" Wide Storage Cabinets

- 180 lb. shelf capacity
- Available in dove gray or putty
- Shipped fully assembled or knocked down

Storage cabinets feature rounded front corners and double doors which swing 180° to permit full access of contents. Shelves offer 180 lb. shelf capacity and adjustable at 2" increments. Cabinets feature a three-point locking device and a "quiet door" feature. Prices do not include freight charges and all shipments are FOB manufacturer's plant. Shipping rates are available prior to shipment. Please call our Sales Department 1-800-225-5370.

Cabinets

Part No.	Model	Shipped	L x W x H	Color	Price
404-656	1080	Assembled	36" x 18" x 78"	Dove Gray	\$493.85
404-657	1080	Assembled	36" x 18" x 78"	Putty	\$518.00
404-658	1081	Knocked Down	36" x 18" x 78"	Dove Gray	\$381.65
404-659	1081	Knocked Down	36" x 18" x 78"	Putty	\$381.65
404-660	1090	Assembled	36" x 24" x 78"	Dove Gray	\$553.55
404-661	1090	Assembled	36" x 24" x 78"	Putty	\$542.70
404-662	1091	Knocked Down	36" x 24" x 78"	Dove Gray	\$419.70
404-663	1091	Knocked Down	36" x 24" x 78"	Putty	\$440.40

Extra Shelves

Part No.	Description	Color	Price
404-664	Shelf for 1080 and 1081	Dove Gray	\$29.55
404-665	Shelf for 1080 and 1081	Putty	\$29.55
404-666	Shelf for 1090 and 1091	Dove Gray	\$35.05
404-667	Shelf for 1090 and 1091	Putty	\$36.80



SHIPPED
WITHIN 48 HOURS

36" Wide Stand Alone Shelving

Sturdy Construction and Easy Installation

- Available in dove gray
- Choose open or closed shelving
- Shipped knocked down

Shelving is ideal for applications where stand alone shelving is required. 13-gauge uprights with 22-gauge shelves deliver capacities up to 600 lbs. per shelf (based on evenly distributed dead weight on 36" x 18" shelf). Shelving units come with five shelves adjustable on 1-1/2" centers. Prices do not include freight charges and all shipments are FOB manufacturer's plant. Shipping rates are available prior to shipment. Please call our Sales Department, 1-800-225-5370.

Open Shelving

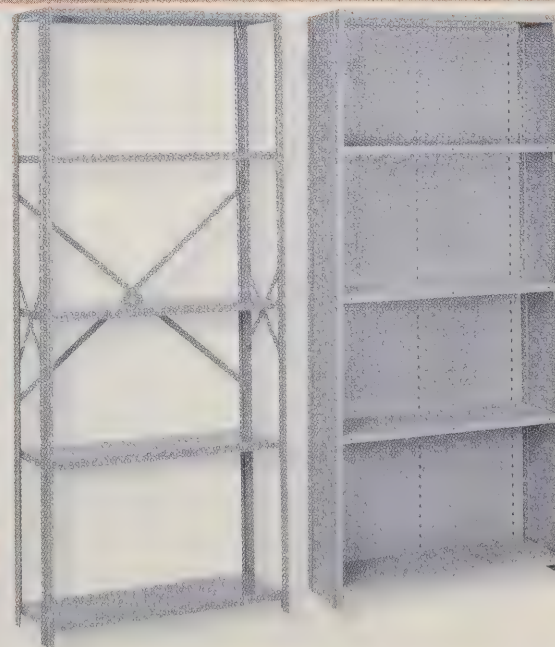
Part No.	Model	Length	Depth	Height	Price
404-671	8700M	36"	12"	84"	\$154.00
404-672	8701M	36"	18"	84"	\$166.70
404-673	8702M	36"	24"	84"	\$195.95

Closed Shelving

Part No.	Model	Length	Depth	Height	Price
404-674	8715M	36"	12"	84"	\$217.45
404-675	8716M	36"	18"	84"	\$249.30
404-676	8717M	36"	24"	84"	\$274.70

Extra Shelves for Open and Closed Shelving

Part No.	Description	Price
404-677	Extra Shelf 12" Deep	\$15.25
404-678	Extra Shelf 18" Deep	\$19.15
404-679	Extra Shelf 24" Deep	\$24.05



SHIPPED
WITHIN 48 HOURS

Super Erecta® Wire Shelving

The Original Sturdy, Attractive & Easy to Assemble Shelving System

- Create the exact size to fit your space
- Assembles without nuts, bolts or tools
- Open wire surfaces minimize dust buildup and maximize visibility

This modular wire-shelving system is easily arranged to satisfy your storage and material handling requirements

SiteSelect™ Posts for Stationary Shelving

Post design provides a visual guide for positioning and adjusting shelves. To determine shelf height posts are grooved at 1" increments and numbered at 2" increments to help determine shelf height during assembly. Comes complete with leveling bolts and caps. Height includes leveling bolt and cap.

Chrome Plated Post

Part No.	Model	Height	Price Each
120-557	7P	7-5/8"	\$9.45
120-375	13P	14-1/2"	\$11.55
120-526	33P	34-1/2"	\$14.70
120-533	54P	54-1/2"	\$17.85
120-545	63P	62-9/16"	\$18.90
120-551	74P	74-5/8"	\$21.00
120-558	86P	86-5/8"	\$25.20

Stainless Steel Post

Part No.	Model	Height	Price Each
120-376	13PS	14-1/2"	\$22.05
120-527	33PS	34-1/2"	\$35.70
120-535	54PS	54-1/2"	\$39.90
120-547	63PS	62-9/16"	\$44.10
120-553	74PS	74-5/8"	\$50.40
120-560	86PS	86-5/8"	\$58.80

SiteSelect™ Posts for Stem Casters

Post design provides a convenient visual guide for positioning and adjusting shelves. To determine shelf height posts are grooved at 1" increments and numbered at 2" increments to help determine shelf height during assembly.

Chrome Plated Post

Part No.	Model	Height	Price Each
120-528	33UP	33-7/8"	\$14.70
120-536	54UP	54"	\$17.85
120-548	63UP	62"	\$18.90
120-554	74UP	74"	\$21.00
120-561	86UP	86"	\$25.20

Stainless Steel Post

Part No.	Model	Height	Price Each
120-529	33UPS	33-7/8"	\$35.70
120-538	54UPS	54"	\$39.90
120-550	63UPS	62"	\$44.10
120-556	74UPS	74"	\$50.40
120-563	86UPS	86"	\$58.80



Tapered openings on shelf corners slide over tapered sleeves providing a locking wedge that becomes stronger as weight increases.



With Casters



Without Casters

How to Order

1. If you need stationary shelving go to the section on posts for stationary shelving. If you need mobile shelving go to the section on posts for stem casters.
2. Determine the height of the shelving system desired, and select that size post. (For each

- shelving unit, you will need four posts.) Add casters if required (one caster per post).
3. Choose wire or solid shelves.
4. Wire shelves available in Brite™ Finish, Chrome Plated, or Stainless Steel.
5. Select the shelf dimensions and determine how many shelves you need (shelving unit

- must have shelves which are the same size).
6. For ESD-safe operation, order one set of conductive sleeves (413-600) for each shelf, and one grounding chain (120-568) for each shelving unit. For additional protection of mobile units, you may also order conductive casters, with (408-910) or without (408-909) brakes.

Super Erecta® Wire Shelves

Sturdy truss reinforcing on all four sides prevents shelf deflection. Each shelf includes four shelf-support sleeves. Wire shelves are available with a Super Erecta® Brite™ Finish, Chrome Plated or Stainless Steel.

Brite™ Finish Shelves

Zinc chromate with clear acrylic coating. Provides a look similar to chrome at less cost.

Part No.	Model	W x L (inches)	Price
408-568	1424BR	14 x 24	\$39.90
408-569	1430BR	14 x 30	\$42.00
408-570	1436BR	14 x 36	\$44.10
408-571	1442BR	14 x 42	\$49.35
408-572	1448BR	14 x 48	\$51.45
408-573	1460BR	14 x 60	\$61.95
408-574	1472BR	14 x 72	\$71.40
120-407	1824BR	18 x 24	\$48.30
120-412	1830BR	18 x 30	\$50.40
120-417	1836BR	18 x 36	\$52.50
120-424	1842BR	18 x 42	\$58.80
120-429	1848BR	18 x 48	\$60.90
408-575	1854BR	18 x 54	\$69.30
120-438	1860BR	18 x 60	\$71.40
120-443	1872BR	18 x 72	\$84.00
120-448	2124BR	21 x 24	\$53.55
120-453	2130BR	21 x 30	\$55.65
120-458	2136BR	21 x 36	\$57.75
120-465	2142BR	21 x 42	\$64.05
408-576	2148BR	21 x 48	\$66.15
409-414	2154BR	21 x 54	\$78.75
120-478	2160BR	21 x 60	\$80.85
120-483	2172BR	21 x 72	\$97.65
120-486	2424BR	24 x 24	\$57.75
120-491	2430BR	24 x 30	\$59.85
120-496	2436BR	24 x 36	\$61.95
120-503	2442BR	24 x 42	\$71.40
120-508	2448BR	24 x 48	\$73.50
408-578	2454BR	24 x 54	\$88.20
120-517	2460BR	24 x 60	\$90.30
120-522	2472BR	24 x 72	\$103.95



Chrome Plated Shelves

Nickel-chrome plating with clear acrylic coating. Provides hard, durable finish.

Part No.	Model	W x L (inches)	Price
120-379	1424NC	14 x 24	\$45.15
120-383	1430NC	14 x 30	\$47.25
120-387	1436NC	14 x 36	\$49.35
120-393	1442NC	14 x 42	\$56.70
120-397	1448NC	14 x 48	\$58.80
120-403	1460NC	14 x 60	\$66.15
120-405	1472NC	14 x 72	\$76.65
120-410	1824NC	18 x 24	\$49.35
120-415	1830NC	18 x 30	\$51.45
120-420	1836NC	18 x 36	\$53.55
120-427	1842NC	18 x 42	\$61.95
120-432	1848NC	18 x 48	\$64.05
120-436	1854NC	18 x 54	\$72.45
120-441	1860NC	18 x 60	\$74.55
120-444	1872NC	18 x 72	\$89.25
120-451	2124NC	21 x 24	\$58.80
120-456	2130NC	21 x 30	\$60.90
120-461	2136NC	21 x 36	\$63.00
120-468	2142NC	21 x 42	\$70.35
120-472	2148NC	21 x 48	\$72.45
120-476	2154NC	21 x 54	\$82.95
120-481	2160NC	21 x 60	\$85.05
120-484	2172NC	21 x 72	\$102.90
120-489	2424NC	24 x 24	\$61.95
120-494	2430NC	24 x 30	\$64.05
120-499	2436NC	24 x 36	\$66.15
120-506	2442NC	24 x 42	\$77.70
120-511	2448NC	24 x 48	\$79.80



PROTEKTIVE PAK

Pro-Mat™ Static Dissipative Mats

Use on Shelves to Protect ESD Sensitive Parts

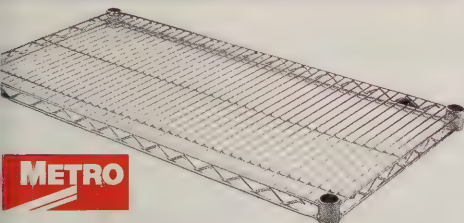
- Fiberboard construction
- Resistant to most chemicals
- Installed 3/8" female snaps

Mats are constructed from recycled fiberboard impregnated and laminated with a static dissipative surface of 10⁷-10⁹ ohms/sq. Conductive layer of 10⁴ ohms/sq. is buried under the static dissipative surface to reduce the potential for a rapid discharge.

METRO Shipping Information

Products are shipped knocked down and are properly packaged to ensure safe delivery. Prices do not include freight charges and

all shipments are FOB manufacturer's plant. For shipping rates, please call our Sales Department at (800) 225-5370.



Super Erecta® Wire Shelves (continued)

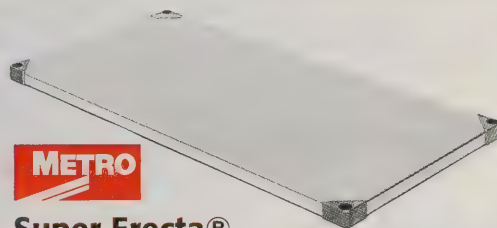
Stainless Steel Shelves

Part No.	Model	W x L (inches)	Price Each
120-380	1424NS	14 x 24	\$134.40
120-384	1430NS	14 x 30	\$136.50
120-388	1436NS	14 x 36	\$138.60
120-394	1442NS	14 x 42	\$169.05
120-398	1448NS	14 x 48	\$171.15
120-404	1460NS	14 x 60	\$216.30
120-406	1472NS	14 x 72	\$244.65
120-411	1824NS	18 x 24	\$166.95
120-416	1830NS	18 x 30	\$169.05
120-421	1836NS	18 x 36	\$171.15
120-428	1842NS	18 x 42	\$201.60
120-433	1848NS	18 x 48	\$203.70
120-437	1854NS	18 x 54	\$257.25
120-442	1860NS	18 x 60	\$259.35
120-445	1872NS	18 x 72	\$308.70
120-452	2124NS	21 x 24	\$192.15
120-457	2130NS	21 x 30	\$194.25
120-462	2136NS	21 x 36	\$196.35
120-469	2142NS	21 x 42	\$225.75
120-473	2148NS	21 x 48	\$227.85
120-477	2154NS	21 x 54	\$300.30
120-482	2160NS	21 x 60	\$302.40
120-485	2172NS	21 x 72	\$358.05
120-490	2424NS	24 x 24	\$207.90
120-495	2430NS	24 x 30	\$210.00
120-500	2436NS	24 x 36	\$212.10
120-507	2442NS	24 x 42	\$254.10
120-512	2448NS	24 x 48	\$256.20

Optional common-point grounding cord **Part No. 126-182**, provides grounding for up to two wrist straps as well as the shelf mat to common ground.

Part No.	Overall Mat Dimensions			Price
	Length	Width	Thickness	
130-196	11-3/4"	35-1/2"	.060"	\$7.31
130-197	11-3/4"	47-1/2"	.060"	\$8.06
130-198	11-3/4"	59-1/2"	.060"	\$9.53
130-199	17-1/2"	35-1/2"	.060"	\$8.77
130-200	23-1/2"	47-1/2"	.060"	\$11.69
130-201	23-1/2"	59-1/2"	.060"	\$13.60
126-182	Ground Cord	—	—	\$14.15

*Minimum order \$100.00.



Super Erecta® Solid Shelves

Sturdy Aluminum Castings Firmly Lock Corners to Post

- Galvanized Steel

Solid 18-gauge galvanized steel with clear baked-on acrylic coating. 1/8" raised edge on all four sides of shelving to help contain spillage, minimizes contamination and permits easier clean up. Each shelf included four shelf-support sleeves.

Part No.	Model	W x L (inches)	Price Each
120-377	1424FG	14 x 24	\$64.05
120-381	1430FG	14 x 30	\$66.15
120-385	1436FG	14 x 36	\$68.25
120-391	1442FG	14 x 42	\$74.55
120-395	1448FG	14 x 48	\$76.65
120-401	1460FG	14 x 60	\$84.00
120-408	1824FG	18 x 24	\$68.25
120-413	1830FG	18 x 30	\$70.35
120-418	1836FG	18 x 36	\$73.50
120-425	1842FG	18 x 42	\$81.90
120-430	1848FG	18 x 48	\$84.00
120-439	1860FG	18 x 60	\$95.55
120-449	2124FG	21 x 24	\$75.60
120-454	2130FG	21 x 30	\$77.70
120-459	2136FG	21 x 36	\$79.80
120-466	2142FG	21 x 42	\$91.35
120-470	2148FG	21 x 48	\$93.45
120-479	2160FG	21 x 60	\$106.05
120-487	2424FG	24 x 24	\$84.00
120-492	2430FG	24 x 30	\$86.10
120-497	2436FG	24 x 36	\$88.20
120-504	2442FG	24 x 42	\$98.70
120-509	2448FG	24 x 48	\$100.80
120-518	2460FG	24 x 60	\$113.40



Shelving and Cart Covers Available. Call 1-888-866-5487 to assist with your size.

WIRE SHELVING



Swivel Stem Casters

Use with Super Erecta® posts and shelves to create a mobile shelving unit to meet your special needs. Each caster comes with a donut bumper at no extra charge. Available in Standard and Conductive.



Standard Casters

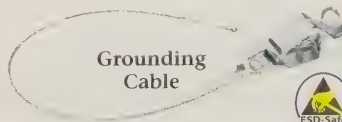
Part No.	Model Included	Brake	Wheel Tread	Wheel Diameter	Overall Height	Price
120-532	4LD	No	Resilient	4"	4-5/8"	\$17.00
120-539	5LD	No	Resilient	5"	5-5/8"	\$20.00
120-540	5M	No	Resilient	5"	6-3/32"	\$23.00
120-542	5MP	No	Poly	5"	6-3/32"	\$37.00
120-541	5MB	Yes	Resilient	5"	6-3/32"	\$28.00
120-543	5MPB	Yes	Poly	5"	6-3/32"	\$42.00



Conductive Casters

Conductive stem casters are optional for ESD-safe protection. They must be cleaned regularly and kept free of dust for optimum performance. Part No. 424-415 and 424-416 are non carbon loaded and will not mark ESD-Safe Floors.

Part No.	Model	Brake Included	Wheel Diameter	Overall Height	Price
408-910	5MC	No	5"	6-3/32"	\$42.00
408-909	5MBC	Yes	5"	6-3/32"	\$47.00
424-415	5MESD	No	5"	6-3/32"	\$50.40
424-416	5MBESD	Yes	5"	6-3/32"	\$55.65



9985-ESD

Grounding Cable and Split Sleeves

- Make your shelves and carts ESD-Safe

Part No. 120-568 features a 16" stainless steel cable with spring-loaded clamp that attaches to bottom or edge of shelf. When cable is in contact with a conductive floor it will prevent the accumulation of electrostatic charges. **Part No. 413-600** gray conductive plastic split sleeves (order 1 pkg. per shelf) should also be used in place of standard black plastic split sleeves to ensure shelf conductivity to ground.

Part No.	Model	Description	Price Each
120-568	ASK16S	Grounding Cable	\$17.85
413-600	9985-ESD	Gray Conductive Split Sleeves (pkg/4)	\$6.30



SiteSelect™

Posts for Stationary Shelving

Post design provides a visual guide for positioning and adjusting shelves. To determine shelf height posts are grooved at 1" increments and numbered at 2" increments to help determine shelf height during assembly. Comes complete with leveling bolts and caps. Height includes leveling bolt and cap.

Part No.	Model	Height	Price Each
120-557	7P	7-5/8"	\$9.45
120-375	13P	14-1/2"	\$11.55
120-526	33P	34-1/2"	\$14.70
120-533	54P	54-1/2"	\$17.85
120-545	63P	62-9/16"	\$18.90
120-551	74P	74-5/8"	\$21.00
120-558	86P	86-5/8"	\$25.20

Super Adjustable® Wire-Shelving System

The Easiest to Adjust Wire Shelving System Ever

- Design a mobile or stationary system
- Create the exact size to fit your space
- Assembles without nuts, bolts or tools

This shelving system allows for quick and easy adjustment of shelves saving you time and improving productivity. Shelves can be readjusted at precise 1" increments along the length of the posts. Each shelf corner is equipped with a quick release lever that remains securely in place until a shelf adjustment is required (no tools).



Quick to Adjust

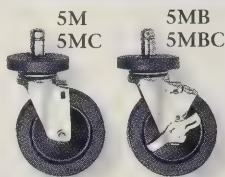


With Casters

SiteSelect™ Posts for Stem Casters

Post design provides a convenient visual guide for positioning and adjusting shelves. To determine shelf height posts are grooved at 1" increments and numbered at 2" increments to help determine shelf height during assembly.

Part No.	Model	Height	Price Each
120-528	33UP	33-7/8"	\$14.70
120-536	54UP	54"	\$17.85
120-548	63UP	62"	\$18.90
120-554	74UP	74"	\$21.00
120-561	86UP	86"	\$25.20



Swivel Stem Casters

Use with Super Erecta® posts and shelves to create a mobile shelving unit to meet your special needs. Each caster comes with a donut bumper at no extra charge. Available in Standard and Conductive.



Conductive Casters

Conductive stem casters are optional for ESD-safe protection. They must be cleaned regularly and kept free of dust for optimum performance. Part No. 424-415 and 424-416 are non carbon loaded and will not mark ESD-Safe Floors.

Part No.	Model	Brake Included	Wheel Diameter	Overall Height	Price
408-910	5MC	No	5"	6-3/32"	\$42.00
408-909	5MBC	Yes	5"	6-3/32"	\$47.00
424-415	5MESD	No	5"	6-3/32"	\$50.40
424-416	5MBESD	Yes	5"	6-3/32"	\$55.65

Super Adjustable® Wire Shelves

Quick Release Lever Adjusts Shelves in Seconds

Sturdy truss reinforcing on all four sides prevents shelf deflection. Each shelf includes four shelf-support wedges and sleeve sets and quick release levers. Wire shelves are available in Brite™ and Chrome finishes.

METRO Brite™ Finish Shelf

Zinc chromate with clear acrylic coating. Provides a look similar to chrome at less cost.

Part No.	Model	W x L (inches)	Price
408-586	A1824BR	18 x 24	\$52.50
408-587	A1830BR	18 x 30	\$54.60
408-585	A1836BR	18 x 36	\$56.70
408-588	A1842BR	18 x 42	\$63.00
408-589	A1848BR	18 x 48	\$65.10
408-590	A1854BR	18 x 54	\$73.50
408-591	A1860BR	18 x 60	\$75.60
408-592	A1872BR	18 x 72	\$88.20
408-593	A2124BR	21 x 24	\$57.75
408-594	A2130BR	21 x 30	\$59.85
408-595	A2136BR	21 x 36	\$61.95
408-596	A2142BR	21 x 42	\$68.25

Part No.	Model	W x L (inches)	Price
408-597	A2148BR	21 x 48	\$70.35
408-598	A2154BR	21 x 54	\$82.95
408-599	A2160BR	21 x 60	\$85.05
408-600	A2172BR	21 x 72	\$101.85
408-601	A2424BR	24 x 24	\$61.95
408-602	A2430BR	24 x 30	\$64.05
408-603	A2436BR	24 x 36	\$66.15
408-604	A2442BR	24 x 42	\$75.60
408-605	A2448BR	24 x 48	\$77.70
408-606	A2454BR	24 x 54	\$92.40
408-607	A2460BR	24 x 60	\$94.50
408-608	A2472BR	24 x 72	\$108.15



How to Order

1. If you need stationary shelving go to the section on posts for stationary shelving. If you need mobile shelving go to the section on posts for stem casters.
2. Determine the height of the shelving system desired, and select that size post. (For each shelving unit, you will need four posts.) Add casters if required (one caster per post).

3. Select Brite™ Finish, or Chrome Plated.
4. Select the shelf dimensions and determine how many shelves you need (shelving unit must have shelves which are the same size).
5. For ESD-safe operation, order one set of conductive sleeves (408-668) for each shelf, and one grounding chain (120-568) for each shelving unit. For additional protection of mobile units, you may also order conductive casters, with (408-910) or without (408-909) brakes.

METRO Shipping Information

Products are shipped knocked down and are properly packaged to ensure safe delivery. Prices do not include freight charges and all shipments are FOB

manufacturer's plant. For shipping rates, please call our Sales Department at (800) 225-5370.

METRO Chrome Plated Shelf

Nickel-chrome plating with clear acrylic coating. Provides hard, durable finish.

Part No.	Model	W x L (inches)	Price
408-609	A1842NC	18 x 24	\$53.55
408-610	A1830NC	18 x 30	\$55.65
408-611	A1836NC	18 x 36	\$57.75
408-612	A1842NC	18 x 42	\$66.15
408-613	A1848NC	18 x 48	\$68.25
408-614	A1854NC	18 x 54	\$76.65
408-615	A1860NC	18 x 60	\$78.75
408-616	A1872NC	18 x 72	\$93.45
408-617	A2124NC	21 x 24	\$63.00
408-618	A2130NC	21 x 30	\$65.10
408-619	A2136NC	21 x 36	\$67.20
408-620	A2142NC	21 x 42	\$74.55

Part No.	Model	W x L (inches)	Price
408-621	A2148NC	21 x 48	\$76.65
408-622	A2154NC	21 x 54	\$87.15
408-623	A2160NC	21 x 60	\$89.25
408-624	A2172NC	21 x 72	\$107.10
408-625	A2424NC	24 x 24	\$66.15
408-626	A2430NC	24 x 30	\$68.25
408-627	A2436NC	24 x 36	\$70.35
408-628	A2442NC	24 x 42	\$81.90
408-629	A2448NC	24 x 48	\$84.00
408-630	A2454NC	24 x 54	\$96.60
408-631	A2460NC	24 x 60	\$98.70
408-632	A2472NC	24 x 72	\$116.55



MetroMax Q™ Shelving Systems

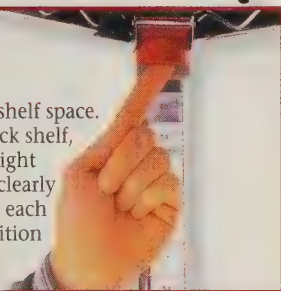
**Quick to Assemble,
Quick to Adjust and
Easy to Clean**

Removable conductive polypropylene (10⁴-10⁵ ohms/sq.) grid mats, provide cushioned shelf storage of sensitive electronic parts. Grounding cable required for conductive shelving system Part No. 120-568 and/or conductive casters.



Quick to Adjust

It's easy to make the most of your available shelf space. Simply pull each Corner Lock Release™ to unlock shelf, relocate the wedge connectors to the desired height on the posts and reposition the shelf. Posts are clearly numbered at one-inch increments. Windows in each wedge connector make seeing the new post position simple.



How to Order

1. If you need stationary shelving go to the section on posts for stationary shelving. If you need mobile shelving go to the section on posts for stem casters.
2. Determine the height of system desired and select that size (for each shelving unit you will need four posts). Add casters if required (one caster per post).
3. Select the shelf dimensions and determine how many shelves you need (shelving unit must have all same size shelves). For conductive shelving you also need to order one grounding cable per system (Part No. 120-568, shown on page 385).

Polymer Utility Carts with Microban®

Reduces the Growth of Bacteria, Mold and Mildew

- NSF listed
- Impact-resistant shelves with rounded corners
- Two styles (deep ledge or BC series flat)
- Two or three shelf models

General purpose utility carts offer shelves with built-in Microban® antimicrobial product protection. Providing a safeguard that helps keep shelves cleaner between cleanings, by slowing down the growth of bacteria, mold and mildew that cause odors, stains and product degradation. Two styles: deep ledge offers 2-3/4" ledge to contain products and spills. BC series offers 1/2" edge lip around shelf perimeter to contain spills. Carts feature 4" diameter resilient rubber swivel stem casters. Rated at 150 lbs. capacity per shelf, 400 lbs. per unit.

Part No.	Model	Style	Size LWH	Price
420-844	BC2030-2DMB	2-Shelf Deep Ledge	21-1/2" x 32-3/4" x 41"	\$209.00
420-845	BC2030-3DMB	3-Shelf Deep Ledge	21-1/2" x 32-3/4" x 41"	\$257.00
420-846	BC1627-24MB	2-Shelf BC Series	18" x 28" x 33-1/4"	\$183.00
420-847	BC1627-34MB	3-Shelf BC Series	18" x 28" x 33-1/4"	\$216.00
420-848	BC2030-24MB	2-Shelf BC Series	21-1/2" x 33-3/4" x 33-1/4"	\$198.00
420-849	BC2030-34MB	3-Shelf BC Series	21-1/2" x 33-3/4" x 33-1/4"	\$244.00

Conductive Posts for Stem Casters

Come without leveling bolt assembly to accommodate stem casters. Height includes cap.

Part No.	Model	Height	Price Each
403-621	Q13UP	13-7/16"	\$15.00
403-622	Q33UP	33-7/16"	\$21.00
403-623	Q54UP	53-7/16"	\$22.00
403-624	Q63UP	62-7/16"	\$24.00
403-625	Q74UP	73-7/16"	\$26.00
403-626	Q86UP	85-7/16"	\$30.00

Conductive Shelves

Each shelf comes complete with metal frame, black conductive grid mat and four wedge connectors.

Part No.	Model	(Inches)	Each
403-570	Q1824C	18 x 24	\$70.00
403-572	Q1836C	18 x 36	\$74.00
403-574	Q1848C	18 x 48	\$87.00
403-576	Q1860C	18 x 60	\$102.00
403-586	Q2424C	24 x 24	\$85.00
403-588	Q2436C	24 x 36	\$89.00
403-590	Q2448C	24 x 48	\$107.00
403-592	Q2460C	24 x 60	\$126.00

Stem Casters

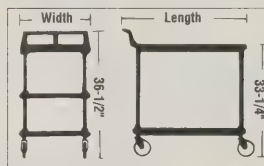
These casters are used with MetroMax Q™ post to create a mobile shelving unit. Available in the following caster types. **Resilient rubber** (soft tread) or **polyurethane** (hard long wearing tread). **Conductive** non-marking for use on ESD-Safe floors. **Vibration suppression** designed to provide a smooth ride for sensitive items. Swivel casters measure 5" diameter with 1-1/4" width.



Part No.	Model	Description	Price
403-478	5MX	Resilient Stem Caster	\$23.00
403-481	5MBX	Resilient Stem Caster with Brake	\$28.00
403-480	5MPX	Polyurethane Stem Caster	\$37.00
403-482	5MPBX	Polyurethane Stem Caster with Brake	\$42.00
423-205	Q5MESD	Conductive Stem Caster	\$50.40
140-894	Q5MBESD	Conductive Stem Caster with Brake	\$55.65
423-206	Q5MFA	Vibration Suppression Stem Caster	\$46.20
423-207	Q5MFBA	Vibration Suppression Stem Caster with Brake	\$51.45

New





Three-Shelf Model

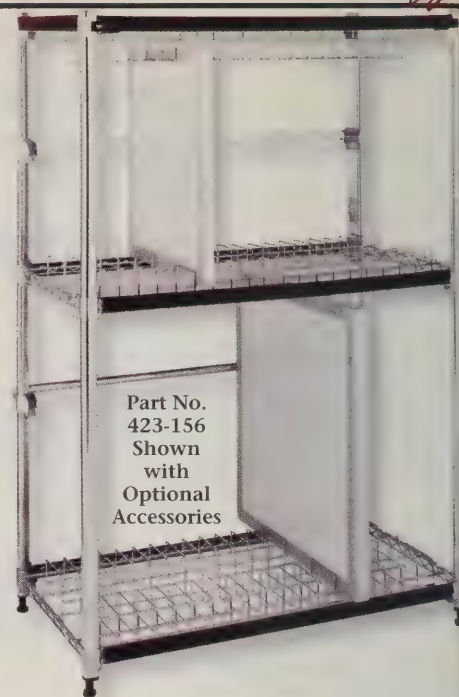
Utility Carts

Heavy Duty Polymer Material Will Not Chip, Dent or Peel

- Raised edge lip around shelf contains spills and items
- Available in 4 colors (beige, gray, teaberry and blue)

These carts feature a integral molded push handle, 4" casters (resilient rubber with bearings), allow you quiet and smooth transportation. Available with two or three shelves. Two-shelf model offers a clearance of 21" between the shelves and a capacity of 150 lbs. per shelf with 300 lbs. max. load per unit. Three-shelf model features adjustable middle shelf and a capacity of 150 lbs. per shelf with 400 lbs. max. load per unit.

Part No.	Model	Style	SizeLW	Color	Price
131-167	BC203024G	Two-Shelf	33-3/4" x 21-1/2"	Gray	\$180.00
131-168	BC203024B	Two-Shelf	33-3/4" x 21-1/2"	Beige	\$180.00
425-393	BC203024BU	Two-Shelf	33-3/4" x 21-1/2"	Blue	\$180.00
425-395	BC203024BY	Two-Shelf	33-3/4" x 21-1/2"	Berry	\$180.00
131-175	BC263624G	Two-Shelf	39-3/4" x 27"	Gray	\$212.00
131-176	BC263624B	Two-Shelf	39-3/4" x 27"	Beige	\$212.00
425-396	BC263624BU	Two-Shelf	39-3/4" x 27"	Blue	\$212.00
425-397	BC263624BY	Two-Shelf	39-3/4" x 27"	Berry	\$212.00
131-171	BC203034	Three-Shelf	33-3/4" x 21-1/2"	Gray	\$222.00
131-172	BC203034B	Three-Shelf	33-3/4" x 21-1/2"	Beige	\$222.00
425-398	BC203034BU	Three-Shelf	33-3/4" x 21-1/2"	Blue	\$222.00
425-399	BC203034BY	Three-Shelf	33-3/4" x 21-1/2"	Berry	\$222.00
131-179	BC263634	Three-Shelf	39-3/4" x 27"	Gray	\$259.00
131-180	BC263634B	Three-Shelf	39-3/4" x 27"	Beige	\$259.00
425-400	BC263634BU	Three-Shelf	39-3/4" x 27"	Blue	\$259.00
425-401	BC263634BY	Three-Shelf	39-3/4" x 27"	Berry	\$259.00

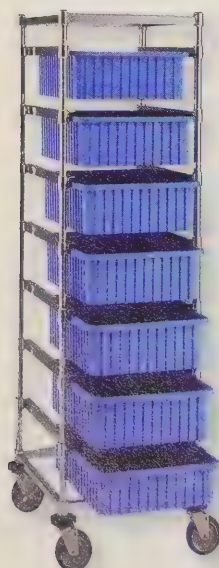


SMT Stationary Stencil Storage Unit

- Designed to accept stencil frames up to 1-1/2" (38mm) wide
- Weight capacity 200 lbs. (each storage level)
- Capacity of 19 stencil frames (each storage level)

Complete two-level stationary unit. Stencils drop-into 24" x 42" footprint to form a partial or dedicated stencil storage unit. Includes: four post, top, bottom and intermediate stencil shelves. Optional stencil backstops: Part No. 423-157 for 24" and smaller frames. Extended backstop, Part No. 423-158 for 29" stencil frames.

Part No.	Model	Description	Size	Price
423-156	QN546CSTL	Stencil Unit	24" W x 42" L x 63" H	\$844.20
423-157	QH142Z	Backstop	42" L	\$37.80
423-158	QH42Z	Extended Backstop	42" L	\$59.85



Adjustable Tote Kitting Cart

Provides Space Saving Storage for Tote Boxes

Cart comes with three sets of slides. Additional single slides are available Part No.120-627. Slides allow tote boxes to move in and out for easy parts access and can be adjusted along the length of the 63" posts. (Cart shown has four sets of additional slides). Includes casters (two swivel, two brake). Cart measures 29.4"L x 26"W x 68"H.

Part No.	Model	Description	Price
406-984	APT1C-5M	Cart with Resilient Casters	\$554.40
406-983	APT1C-5MP	Cart with Polyurethane Casters	\$620.55
120-627	S3C	Optional Slide (1 only)	\$17.85

*Tote Boxes not included; see pages 380-381

Benchside Tote Cart

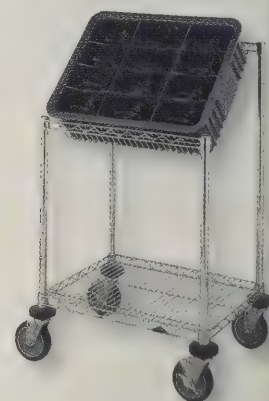


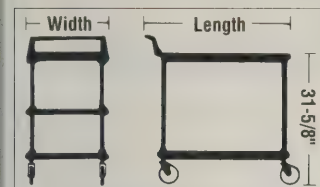
Easy Reach for Repetitive Pick-and-Place Work

- Adjustable ergonomic design

Cart allows you to position bins, totes or sub-assemblies at a 45° angle. Tote shelf is adjustable at 1" increments. Unit comes complete with 45° slanted top shelf, stationary bottom shelf for added storage, 5" resilient casters (two swivel, two brake), conductive shelf fasteners and grounding cable to prevent the accumulation of electrostatic charges when in contact with a conductive floor. Overall dimensions: 18" L x 24" W x 39" H. Tote boxes sold separately.

Part No.	Description	Price
405-444	Benchside Tote Cart	\$312.90





Wire-Shelf Carts

**Durable, Dependable
and Easy to Maneuver**

- Two or three shelf models
- Five handy sizes to choose from

Super Erecta® carts feature easily adjust shelves at 1" increments and chrome plated post and shelves. Each cart comes knocked down in a single carton with shelves, a pair of handle-posts, casters and donut bumpers. Height from floor to top of handle is 38" (for carts with 4" casters) and 39" (for carts with 5" casters).

Part No.	Model	Style	Size LW	Casters Diam.	Price
120-602	MW601	Two-Shelf	24" x 18"	4"	\$235.20
120-604	MW603	Two-Shelf	30" x 18"	4"	\$244.65
120-606	MW605	Two-Shelf	36" x 18"	4"	\$252.00
120-608	MW607	Two-Shelf	36" x 21"	5"	\$274.05
120-610	MW611	Two-Shelf	36" x 24"	5"	\$283.50
120-612	MW701	Three-Shelf	24" x 18"	4"	\$278.25
120-614	MW703	Three-Shelf	30" x 18"	4"	\$292.95
120-616	MW705	Three-Shelf	36" x 18"	4"	\$303.45
120-618	MW707	Three-Shelf	36" x 21"	5"	\$330.75
120-620	MW711	Three-Shelf	36" x 24"	5"	\$344.40



Three-Shelf Model

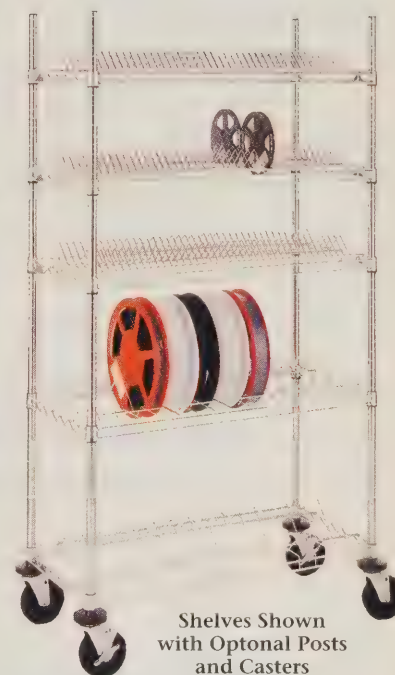
Reel Shelves

**Use These Shelves
to Create Your
Own Custom Unit**

- Provide efficient storage of 7", 13" & 15" reels
- Complete with plastic conductive split sleeves
- Super Erecta Brite™ finish

Shelves can be mixed and matched with standard Super Erecta® shelving, posts and casters to create a reel handling and storage system to meet your needs. Two shelf size to choose from. Part No. 120-624 measures 18" x 36" and can hold up to seventy-eight 7" reels. Part No. 120-623 measures 18" x 36" and can hold up to fifteen 13" or 15" reels.

Part No.	Model	Description	Price
120-624	R1836BR-7	Shelf Only for 7" Reels	\$87.15
120-623	R1836BR-13	Shelf Only for 13" & 15" Reels	\$79.80



Shelves Shown
with Optional Posts
and Casters

SmartTray™ System

One Part Number Includes: Cart with Trays and Inlays

- Built-in anti-tip design
- Tray's spaced every 1-3/4"

SmartTray™ system is designed to maximize productivity by minimizing PCB damage during electronics material handling applications, since the tray is handled as opposed to the PCBs. Anti-tip design allows the trays to be pulled partly out of the slots without tipping or falling out. Carts feature ESD-Safe chrome-plated finish with metrolac protective coating on shelves, posts, slides, handles and stop bars, with 5" vibration suppression casters (two brake and two swivel). Boards are stored and transported in the cart using ESD-Safe static dissipative (10⁶ - 10⁹ ohms/sq.) molded fiberglass SmartTray™ with inlays.

SmartTray™ Cart with Trays and Tray Inlays

Choose between a front-load or side-load cart with trays and inlays. Premium Inlay (rubber two-layer) offers maximum ESD protection, resistance to heat, abrasion and chemicals. Economy Inlay (vinyl single-layer) provides soft-surface for cushioned PCB transport, not recommended for use in soldering applications.

Part No.	Model	Description	Outside Dimensions L x W x H	No. of Trays w/Inlays	Tray Inlay	Price
418-152	CBNTC20MSOL1	Front-Load Cart w/Trays and Inlays	22" x 28" x 49"	20	Premium	\$1,988.70
418-153	CBNTC30MSOL1	Front-Load Cart w/Trays and Inlays	22" x 28" x 63"	30	Premium	\$2,674.35
418-154	CBNTCS20MSOL1	Side-Load Cart w/Trays and Inlays	30" x 22" x 49"	20	Premium	\$1,988.70
418-155	CBNTC20MSOL2	Front-Load Cart w/Trays and Inlays	22" x 28" x 49"	20	Economy	\$1,876.35
418-156	CBNTC30MSOL2	Front-Load Cart w/Trays and Inlays	22" x 28" x 63"	30	Economy	\$2,505.30
418-157	CBNTCS20MSOL2	Side-Load Cart w/Trays and Inlays	30" x 22" x 49"	20	Economy	\$1,876.35

SmartTray™ and Optional Accessories

Part No.	Model	Description	Outside Dimensions L x W x H	Price
418-158	CBNTC-MTRAY	SmartTray™ (ESD-Safe Tray)	25-3/4" x 17-3/4" x 1-1/8"	\$30.45
418-161	H209C	Hanging Paperwork Basket	13-3/8" x 5" x 7"	\$26.25



Front-Load SmartTray Cart
(shown fully accessorized)



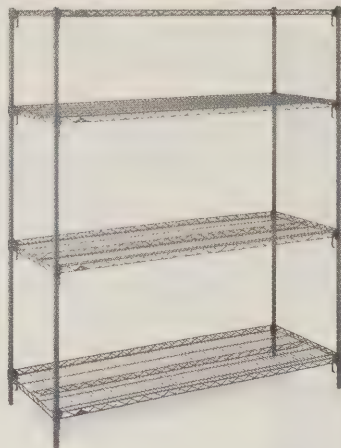
METRO

Super Adjustable® Stationary Wire-Shelving

**Quick Release Lever Adjusts
Shelves in Seconds**

- 63" high
- Shelves adjusted at 1" increments

Units come complete with four Super Adjustable® chrome-plated wire shelves and four 63" high chrome-plated stationary post. Each shelf corner is equipped with a quick release lever that remains securely in place until a shelf adjustment is required. For ESD-Safe operation, order one set of conductive sleeves (408-668) for each shelf, and one grounding chain (120-568) for each shelving unit.



Part No.	Model	Description	Price
413-539	A336C	18" x 36" Wire Shelving	\$306.60
413-540	A346C	18" x 42" Wire Shelving	\$340.20
413-541	A356C	18" x 48" Wire Shelving	\$348.60
413-542	A366C	18" x 60" Wire Shelving	\$390.60
413-543	A376C	18" x 72" Wire Shelving	\$449.40
413-544	A436C	21" x 36" Wire Shelving	\$344.40
413-545	A446C	21" x 42" Wire Shelving	\$373.80
413-546	A456C	21" x 48" Wire Shelving	\$382.20
413-547	A466C	21" x 60" Wire Shelving	\$432.60
413-548	A476C	21" x 72" Wire Shelving	\$504.00
413-549	A536C	24" x 36" Wire Shelving	\$357.00
413-550	A546C	24" x 42" Wire Shelving	\$403.20
413-551	A556C	24" x 48" Wire Shelving	\$411.60
413-552	A566C	24" x 60" Wire Shelving	\$470.40
413-553	A576C	24" x 72" Wire Shelving	\$541.80
408-668	AE5D-4	Conductive Sleeve (pkg/4)	\$4.73
120-568	ASK16S	Grounding Cable	\$17.85

LYON

ESD-Safe Shelving

**Store and Protect Sensitive
Items From ESD**

- Measures 48" W x 24" D x 72" H
- 14 gauge galvanized steel uprights
- Conductive particle board
- RTG 106 to 109

Lyon's particle board patented ECP® is permeated with a special ESD-Safe compound. This patented formulation dissipates static electricity vertically through the board and will not deteriorate. Complete unit with rivet rack section and four ESD-Safe particle board shelves. Optional ground wire assembly Part No. 425-287 (4/PKG.) use to ground each shelf to it's beam insuring a complete ground. Unit should be placed on ground floor mat or esd safe floor to drain potional charges properly.



Part No.	Description	Size	Price
425-286	Complete Rack with ESD-Safe Shelves	48" W x 24" D x 72" H	\$210.15
425-287	Ground Wire Assembly for Shelving Unit	-	\$3.90

* Shown with Two Optional
Intermediate Shelves

New

METRO

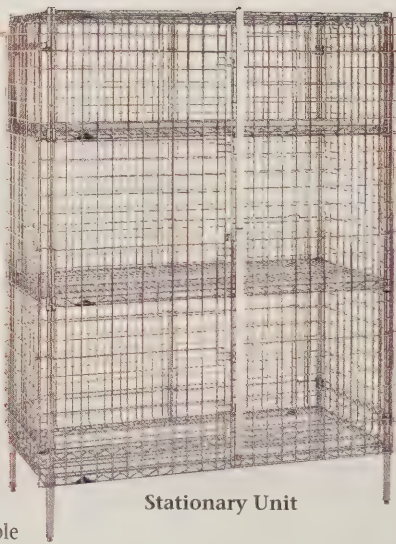
Security Carts

**Protect Valuable Materials and Supplies
from Loss or Pilferage**

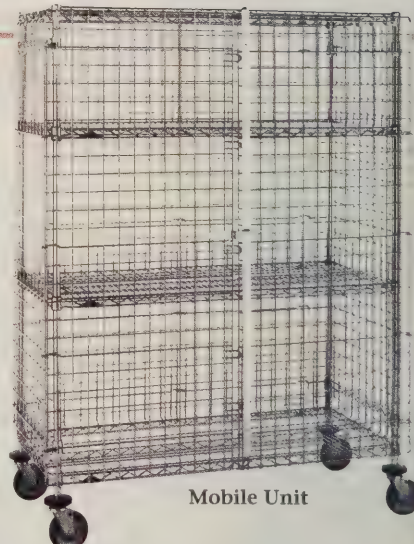
- Stationary or mobile units available
- Optional Super Adjustable® wire shelves

Carts feature a chrome heavy-gauge open wire construction with double doors that keep contents visible at all times. Optional intermediate wire shelves available. Two carts to choose from, stationary carts offer a leveling bolt with each post for uneven floor surfaces or mobile cart featuring four 5" poly stem casters.

Part No.	Model	Description	SizeLWH	Price
418-319	SEC53C	Stationary Security Cart	38-1/2" x 27-1/4" x 66-13/16"	\$943.95
418-320	SEC55C	Stationary Security Cart	50-1/2" x 27-1/4" x 66-13/16"	\$1,174.95
418-321	SEC56C	Stationary Security Cart	62-1/2" x 27-1/4" x 66-13/16"	\$1,274.70
418-322	SEC53DC	Mobile Security Cart	40-3/4" x 27-1/4" x 68-1/2"	\$1,108.80
418-323	SEC55DC	Mobile Security Cart	52-3/4" x 27-1/4" x 68-1/2"	\$1,339.80
418-324	SEC56DC	Mobile Security Cart	65" x 27-1/4" x 68-1/2"	\$1,439.55



Stationary Unit



Mobile Unit

Optional Intermediate Shelves For Security Carts

Super Adjustable® shelving allows for quick and easy adjustment. To position the shelf the levers are pulled, wedges are repositioned and the shelf easily slides to your new height. Each shelf includes four shelf-support wedges and sleeve sets with quick release levers.

Part No.	Model	W x L (inches)	Fits Cart	Price
408-627	A2436NC	24 x 36	SEC53C & SEC53DC	\$70.35
408-629	A2448NC	24 x 48	SEC55C & SEC55DC	\$84.00
408-631	A2460NC	24 x 60	SEC56C & SEC56DC	\$98.70



ELLIS

Stainless Steel Utility Carts

- Available in 200 lbs. and 400 lbs. capacity
- Rubber swivel casters

Durable chassis frame with protective bumpers on legs and handles. Features 1" edge on three sides of top and middle shelves and all edges down on bottom shelf.



Part No.	Model	Outside Dimensions L x W x H	Shelf Size	Casters Diam.	Capacity	Price
418-095	311	24" x 15-1/2" x 32-1/8"	24" x 15-1/2"	3-1/2"	200 lbs.	\$229.75
418-096	322	30-3/4" x 18-3/8" x 33"	27" x 18"	3-1/2"	200 lbs.	\$259.60
418-097	411	27-5/8" x 16-3/4" x 33-3/8"	24" x 15-1/2"	4"	400 lbs.	\$310.00
418-098	422	31" x 19" x 33-3/8"	27" x 18"	4"	400 lbs.	\$330.70
418-099	444	39-1/4" x 22-3/8" x 37-1/4"	35" x 21"	5"	400 lbs.	\$564.55
418-100	459	54-1/8" x 22-3/8" x 37-1/4"	49" x 21"	5"	400 lbs.	\$867.40

ELLIS

Economy Service Carts

- 800 lbs. load capacity

Constructed of 16 gauge steel with a gray finish. Carts offer two shelves with one push handle and four 5" rubber casters (2 swivel and 2 rigid). Each shelf has a 1-1/2" lip to hold items in place. Two sizes to choose from.



Part No.	Model	Description	SizeLWH	Price
418-093	GERSC1836-2	Service Cart	36" x 18" x 35"	\$148.35
418-094	GERSC2436-2	Service Cart	36" x 24" x 35"	\$160.70

AKRO-MILS

ProCart™ Utility Carts

Quickly Convert from Box-Top to Flat-Top Without Tools

- I-beam design permits easy loading and unloading of oversize objects
- 400 lbs. capacity (200 lbs. per shelf)
- 5" non-marking, ball bearing casters (two swivel/two fixed)

Hinged side gates (on both shelves) flip up or down to give you a flat-top or a box-top configuration. Constructed of high-density polyethylene structural foam, features full-width handles to give you complete handling control. Rear casters have breaks to stabilize the cart for loading/unloading. Two gray models to choice from. Optional 9-rail hanging system fits between the I-beams to hold Akro parts bins (sold separately).

Part No.	Model	Description	Price
413-450	30936	Cart 45"L x 24"W x 32"H	\$210.90
413-451	30930	Cart 40"L x 19.5"W x 32"H	\$179.30
413-452	30906	Rail System for 45" Cart	\$58.25
413-453	30900	Rail System for 40" Cart	\$57.25

Quickly Convert from
Box-Top to Flat-Top
Without Tools



Optional Rails
allow you to hang
Akro Parts Bins



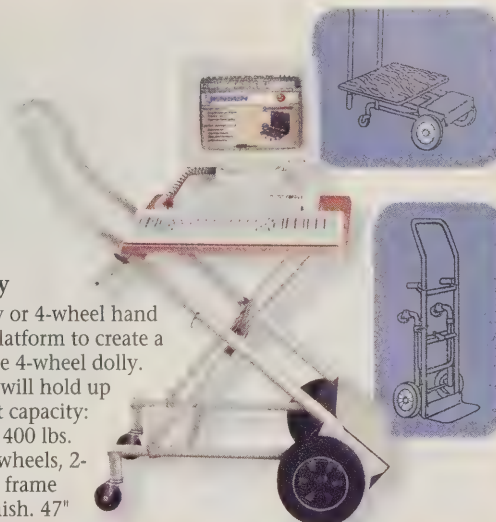
Valley Craft

Converta-Truck

Eight Cart Configurations in One

- 400 lbs. maximum capacity

Create a 2-wheel dolly or 4-wheel hand truck; add the included platform to create a platform truck or steerable 4-wheel dolly. Wood laminate platform will hold up to 100 lbs. Maximum cart capacity: 300 lbs. as a 2-wheeler or 400 lbs. as a 4-wheeler. 8" rubber wheels, 2-1/2" casters. Tubular steel frame with off-white enamel finish. 47" (extends to 55") x 20".



Part No.	Description	Capacity	Weight	Price
568-990	Converta-Truck	100-400 lbs.	49 lbs.	\$164.95

Valley Craft

Super Shelf Utility Cart

Reversible Top Shelf

- Heavy-duty 1600 lbs. capacity

Cart features two 14-gauge steel shelves with 19-1/2" spacing for plenty of carrying space. 24" x 36" top shelf is reversible, allowing you a choice of flush or 1/2" lipped surface. Sturdy 8" x 2-1/2" pneumatic tires absorb shocks from door jams and roll right over rough surfaces. Measures 47-1/2" x 42" x 24-1/4".



Part No.	Description	Price
568-002	Super Shelf Cart	\$317.95



5-Drawer Work Center

All-In-One Solution For Any Type of Job

Five metal drawers with padlock hasps. Heavy-duty work surface supports up to 250 lbs. Locking wheels provide portability and convenient, easy-access storage compartments keep items neatly organized. Pegboard sides allow items to be hung. Built-in tool slots and cord wrap. Locking bar provides security and holds drawers securely in place while transporting. 32-5/8" L x 19-13/16" W x 33 1/2" H.



Tools and supplies not included

Part No.	Description	Capacity	Weight	Price
20-734	5-Drawer Work Center	250 lbs.	76 lbs.	\$262.60

Price does not reflect additional freight charges to your location. These charges will be added to your invoice. Call for freight charges.

Utility Carts

- 500 lbs. capacity (250 lbs. per shelf)

Constructed of tough Duramold® structural foam that won't dent, chip, flake, scratch or rust. Features a built-in molded handle, rounded corners (no sharp edges to nick walls and doors), seamless water-tight construction, and two fixed/two swivel casters for easy maneuvering. Two models to choose from. Both models measure 33" high, have a 19" clearance between shelves. Optional middle shelf is available for both models. Visit www.contacteast.com for ESD-Safe version of these carts.



Part No. 423-548

Part No.	Description	SizeLW	Price
423-544	Utility Cart	39" x 18"	\$171.20
423-548	Utility Cart	45" x 26"	\$188.00
423-546	Optional Middle Shelf	30" x 16"	\$79.80
423-547	Optional Middle Shelf	36" x 24"	\$90.30

Flat Shelf Carts

Flat Top Shelf Permits Easy Loading of Oversized Objects

- Available in gray or beige
- Won't dent, chip, flake, scratch or rust
- 400 lbs. capacity (200 lbs. per shelf)

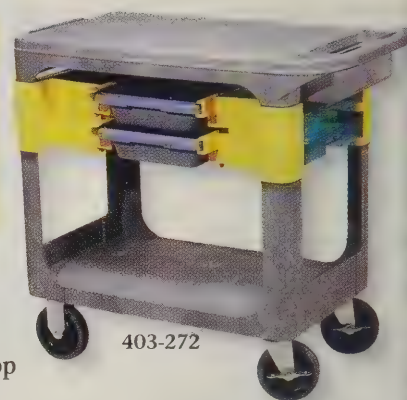
Flat shelf design that allows awkward and large-sized materials to be easily loaded on and off. Features an ergonomically designed steering handle with a built-in storage bin. Non-marking casters for smooth and quiet operation. Carts measure 32-1/4" high has a 19" clearance between shelves. Visit www.contacteast.com for ESD-Safe version of these carts.



Part No.	Color	Description	SizeLW	Price
400-795	Gray	Flat Shelf Cart	38" x 19"	\$197.15
400-796	Gray	Flat Shelf Cart	44" x 25"	\$197.75
700-505	Beige	Flat Shelf Cart	38" x 19"	\$197.35
700-525	Beige	Flat Shelf Cart	44" x 25"	\$195.00



700-181



403-272

Trades Service Cart

- Serves as your mobile workbench
- 350 lbs. capacity (150 lbs. top shelf; 200 lbs. bottom shelf)
- 6" non-marking casters

Rugged molded cart features four compartmentalized parts boxes (two on each end) and two storage drawers for larger tools and supplies. Non-marking 6" casters with brakes on the two swivel casters for stability while working. Suspended storage boxes hold 70 lbs. Measures 38"L x 19-1/4"W x 33-1/4"H.

Part No.	Description	Weight	Price
700-181	Service Cart w/Locking Cabinet	68 lbs.	\$378.00
403-272	Service Cart	52 lbs.	\$285.95

X-tra™ Instrument Cart

- 300lb capacity

Heavy-duty instrument cart features locking doors and slide-out top drawer. Smooth, easy-to-clean shelves. Large non-marking casters. Measures 40-5/8" L x 20" W x 38" H.



Part No.	Description	Price
700-094	X-tra Instrument Cart	\$334.80

New

TradeMaster™ Contractors Cart

- Work surface lid with key lock opens to compartments
- 4 hooks for hanging extension cords, ladders, etc.
- 3 outlet surge protected power strip/cord wrap with 15' cord
- 4" deep steel drawer
- 5" non-marking caster, 2 fixed and 2 swivel with lock brakes

Constructed from tough structural foam this cart is perfect for electricians, tradesmen, and maintenance professionals. Cart measures 53" L x 26" W x 38" H and holds up to 500 lbs.



Part No.	Description	Price
424-456	TradeMaster™ Contractors Cart	\$451.50

Part No. 424-454



New

Part No. 424-453



TradeMaster™ Work Center Cart

- 4-Drawers and 1-Door Cabinet with shelf
- 4" deep steel drawers with molded-in handle
- Molded-in Compartments for small parts or tools
- Comfort grip ergonomic handle
- 3 outlet surge protected power strip with 15' cord
- 5" non-marking caster, 2 fixed and 2 swivel with lock brakes
- Constructed from tough structural foam

Part No.	Description	SizeLWH	Capacity lbs.	Price
424-454	TradeMaster™ Cart	49" x 26" x 38"	750	\$703.50
424-453	TradeMaster™ Cart	59" x 26" x 38"	750	\$850.50



Part No.
424-450

New

Part No. 424-457



TradeMaster™ Cart with Drawers

- Molded-in Compartments
- 3 outlet surge protected power strip with 15' cord
- 4" deep steel drawer with molded-in handle
- Full extension ball bearing drawer slides
- 5" non-marking caster, 2 fixed and 2 swivel with lock brakes
- Single key lock secures all drawers and allows one drawer to open at a time
- Constructed from tough structural foam

Part No.	Description	SizeLWH	Capacity lbs.	Price
424-450	TradeMaster™ 4-Drawer Cart	40" x 18" x 38"	500	\$540.45
424-457	TradeMaster™ 8-Drawer Cart	48" x 26" x 38"	750	\$944.50

Mobile Instrument Carts

Rugged Polypropylene; Won't Stain, Scratch, Dent or Rust

- 4" rubber ball bearing casters (2 with locking brakes)
- Reinforced shelves with retaining lip
- 3-outlet power strip (15 ft. cord)
- Integral push handle
- Optional locking steel cabinets
- Shipped KDF (assembly required)

Mobile Instrument Carts

Part No.	No. of Shelves	Shelf Size	Price
123-770	2	18" x 24"	\$200.00
123-773	3	18" x 24"	\$212.00
123-775	3	18" x 24"	\$218.00
123-771	2	24" x 32"	\$344.00
123-774	3	24" x 32"	\$404.00
123-776	3	24" x 32"	\$419.00
123-777	3	24" x 32"	\$428.00



123-775



123-775 Cart
with 123-759
Optional Steel Cabinet

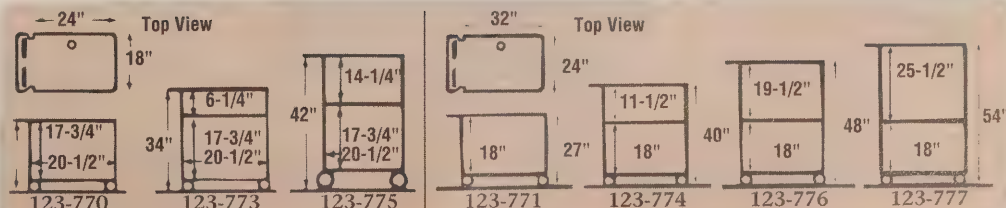


123-776 Cart
with 123-760
Optional Steel Cabinet

Optional Steel Locking Cabinets

Part No. 123-759 fits carts with 18" x 24" shelves. Part No. 123-760 fits carts with 24" x 32" shelves.

Part No.	Description	Price
123-759	Fits Cart with Shelf Size 18" x 24"	\$182.00
123-760	Fits Cart with Shelf Size 24" x 32"	\$244.00



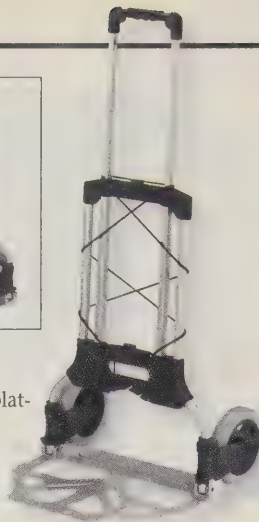


Fold-Flat Luggage Carts

Easy to Store and Lightweight

Both carts extend to 42", have cast aluminum platforms and heavy-duty 7" wheels. Part No. 820-021 measures 29.5 x 19 x 2" when folded flat and has a weight capacity of 175 lbs (pictured). Part No. 54-758 measures 27.75 x 19 x 2" when folded flat and has a weight capacity of 275 lbs.

Part No.	Description	Capacity	Weight	Price
820-021	Fold Flat Cart	175 lbs.	8.4 lbs.	\$163.20
54-578	Fold Flat Cart	275 lbs.	10 lbs.	\$150.00



Super Foldaway Platform Truck

Rugged, Sturdy and Lightweight

- 300 lbs. capacity
- Telescoping platform
- Interlocking aluminum frame

Dual length platform extends to 28 x 16" with a 32" handle height. Features easy-rolling 4" casters, two swivel and two rigid. Folds to a compact 20 x 16 x 9-1/2" for easy storage. Protective vinyl corners prevent damage to walls or furniture.



Part No.	Description	Capacity	Price
116-893	Platform Truck	300 lbs.	\$199.95



Compact Platform Trucks

- Handle folds down for storage
- Two fixed, two swivel casters
- Non-skid platform

Constructed from lightweight, high-density structural foam with added molded-in handle. Features non-skid platform surface to prevent load from shifting during transport. Fold down ergonomic steel handle with powder-coated finish to resist rusting. All models offer a deck size measuring: 35-1/2" L x 22-1/2" W. Part No. 423-221 features 2 toe-touch locking rear casters.

Part No.
423-221



Part No.	Description	Height	Capacity lbs.	Price
423-220	Platform Truck with 3" x 1" Casters	34"	300	\$104.90
423-221	Platform Truck with 4" x 1" Casters	35"	500	\$110.95
423-222	Platform Truck with 6" x 2" Casters	37"	1000	\$209.95



Folding Platform Truck

Fold-Down Handle For Easy Storage

Move equipment quietly through offices without disturbing others. Standard Platform Truck has a pressed steel platform with covered non-slip base. Two stationary and two swivel 4" rubber casters. All around bumper prevents damage to walls or furniture. 19 x 29-1/4". Large Platform Truck is identical, but has 5" casters, larger platform and greater capacity. 23 x 35".



Part No.	Description	Capacity	Price
601-440	Standard Platform Truck	400 lbs.	\$119.95
820-035	Large Platform Truck	600 lbs.	\$199.95



Utility Cart

- Rugged molded construction
- Resists most common solvents

Two 31" x 18" x 3" shelves, each with a capacity of 150 lbs. Four swivel casters with 4" wheels. Easy assembly with soft face hammer.



Part No.	Description	Size	Price
997-001	Utility Cart	37 x 19 x 32"	\$113.30



Ultra Lite Truck

Quickly Convert From Upright Hand Truck to Platform Cart

- 600 lbs. capacity
- Light weight frame
- Steel handle and base plate

Strong as steel or aluminum, frame is constructed from high-capacity nylon/glass compounds. 7" x 14-1/2" toe plate. 10" x 3-1/2" pneumatic wheels and 5" x 1-1/4" swivel casters. 49-1/2" high as hand truck. Platform cart bed measures 21" W x 37" L x 10" H



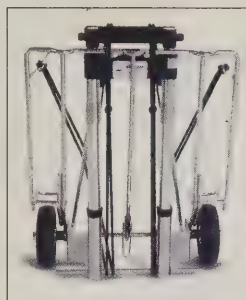
Part No.	Description	Price
385-635	Ultra Lite Senior Dual Truck	\$142.80



Remin



116-949
Shown Loaded

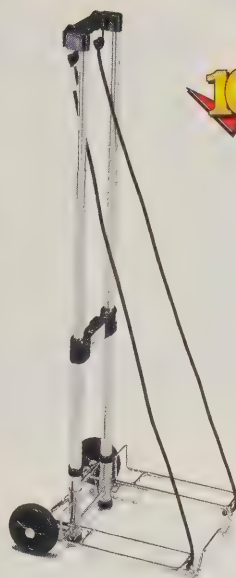


All Carts Fold for
Compact Storage

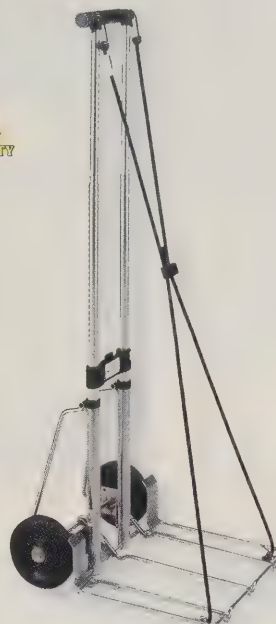
Kart-A-Bag® Heavy-Duty Travel Carts

■ Double-telescoping alu- minum frame

Lightweight, collapsible travel carts fold up and store easily in a car trunk and can be checked or carried on an airplane. Ideal for transporting luggage, tool kits, test equipment and other heavy objects. Sturdy, double-telescoping, self-locking frame allows you to open or close cart with one easy motion. Permanently attached stretch cords are adjustable to hold loads securely. Steel platform base. Step slider smoothly slides carts up or down steps. **901-600, 116-949** have solid rubber wheels.



117-039



901-600



116-949

Part No.	Mfr. No.	Capacity	Extended Height	Collapsed Dimensions	Platform	Wheels	Weight	Price
117-039	CONCORDE II	150 lbs.	41"	18-1/2 x 11-1/2"	9-1/2"	4"	7 lbs.	\$94.35
901-600	600	300 lbs.	49"	20-1/4 x 12-1/2"	16"	6"	11 lbs.	\$154.95
116-949*	800	300 lbs.	49"	20-1/4 x 12-1/2"	16"	6"	20 lbs.	\$194.95

*116-949 Can be used as a 2 or 4 wheel cart by raising or lowering the patented rear-support wheel assembly. Rear-support features two 3" swivel casters for total mobility.

pfc™



Portable Folding Carts

Deluxe collapsible luggage carts made of the finest quality black steel tubing. Feature large diameter easy-rolling wheels, sturdy platform extension, heavy-duty straps, patented handle lock mechanism, strong steel structure, and black foam grips. (Wheels and straps not included in warranty.)



419-616



247-050

Part No.	Mfr. No.	Capacity	Extended Height	Collapsed Dimensions	Weight	Platform	Wheels	Finish	Price
419-616	650	150 lbs.	40"	24 x 13 x 7"	7 lbs.	10 x 12"	6"	Black	\$34.70
247-050	1050	275 lbs.	46"	27 x 17 x 8"	13 lbs.	14 x 13"	7"	Black	\$81.60



STANLEY

Vidmar®

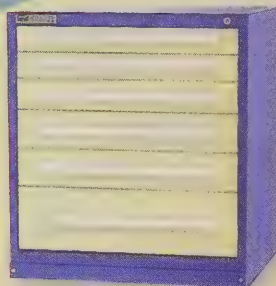
For an expanded selection of VIDMAR® cabinets or for more information call our sales department or visit us at contacteast.com or jensentools.com

New

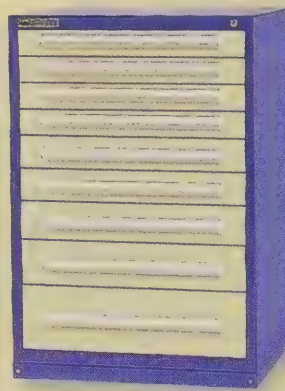
Heavy Duty Storage Drawer Cabinets

Space Saving Solutions - Use Less Space to Store More

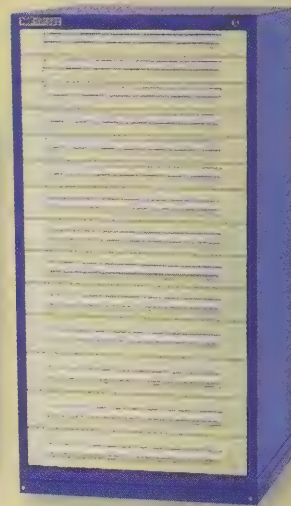
- Stack into mezzanines to save floor space (up to six high)
- Built-in pallet base for easy mobility
- Single key lock system opens all drawers
- 400 lb capacity per drawer
- Heavy-duty ball-bearing drawer glides
- 100% full extension drawers with 3/4" welded drawer stop



425-413



425-414



425-415

Drawer storage gives every item its own specific place ideal for computerized control and organization. Designed with the modularity and flexibility of building blocks, cabinets let you grow one or more cabinets at a time as your needs expand. Engineered for optimum access, drawers extend fully, so all parts are within full view, allowing easy access from the front or sides. Drawers and dividers within any cabinet can be rearranged or interchanged with other cabinets. Choose from just a few popular cabinets with preconfigured drawer interiors already installed.

6-Drawer Storage Cabinet

- 108 Compartments
- Bench and workstation height 33" (27-3/4" L x 30" W)

Part No.	Model	Description	Price
425-413	SEP1004AL	6-Drawer Cabinet with 108 Compartments	\$993.00

Part No. 425-413 Drawer Specifications			
No. of Drawers	Usable Height (Inches)	Drawer Layout Diagram	No. of Compartments
1	2-1/4	LD58	24
1	2-1/4	LD68	20
1	3	LD88	16
1	3-7/8	LD68	20
1	3-7/8	LD88	16
1	7	LD108	12

9-Drawer Storage Cabinet

- 184 Compartments
- Counter height 44" (27-3/4" L x 30" W)

Part No.	Model	Description	Price
425-414	SEP2025AL	9-Drawer Cabinet with 184 Compartments	\$1,357.10

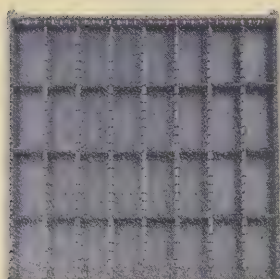
Part No. 425-414 Drawer Specifications			
No. of Drawers	Usable Height (Inches)	Drawer Layout Diagram	No. of Compartments
1	2-1/4	LD48	32
2	2-1/4	LD58	24
1	2-1/4	LD68	20
1	3	LD68	20
1	3	LD88	16
1	3-7/8	LD68	20
1	4-5/8	LD88	16
1	7	LD108	12

14-Drawer Storage Cabinet

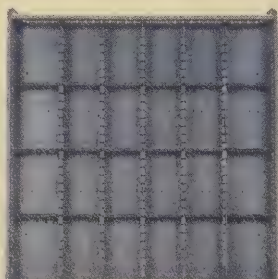
- 300 Compartments
- Eye level height 59" (27-3/4" L x 30" W)

Part No.	Model	Description	Price
425-415	SEP3026AL	14-Drawer Cabinet with 300 Compartments	\$1,919.70

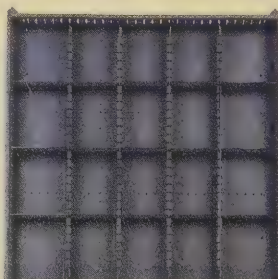
Part No. 425-415 Drawer Specifications			
No. of Drawers	Usable Height (Inches)	Drawer Layout Diagram	No. of Compartments
2	2-1/4	LD48	32
3	2-1/4	LD58	24
1	2-1/4	LD68	20
2	3	LD68	20
2	3	LD88	16
1	3-7/8	LD58	24
1	3-7/8	LD68	20
1	3-7/8	LD88	16
1	3-7/8	LD108	12



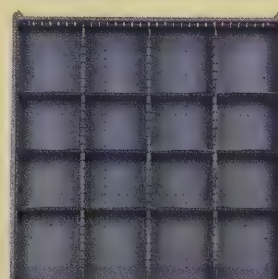
LD48 32-Compartments
2-5/8" x 3-1/8"



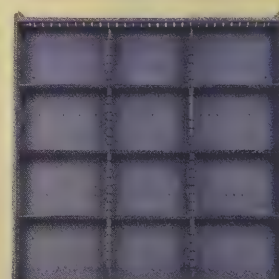
LD58 24-Compartments
3-1/2" x 6-1/8"



LD68 20-Compartments
4-1/4" x 6-1/8"



LD88 16-Compartments
5-7/8" x 6-1/8"



LD108 12-Compartments
7-1/2" x 6-1/8"



STANLEY

Vidmar**BENCHES**

Sentry 100 StaticGard Technician's Workstation

Maintain Everything You Need With-In Arms Reach

- Adjustable compartments
- Point-to-point resistance $\geq 1 \times 10^6$ ohms and $\leq 1 \times 10^9$ ohms
- Point-to-ground resistance $\geq 1 \times 10^6$ ohms and $\leq 1 \times 10^9$ ohms
- Tested and certified at 100 volts

Designed to be top in its class for quality construction and static-protection. Conforming to ESD association standards providing a single point ESD-safe workstation. Features 5-Drawer cabinet measuring 30"W x 27-3/4"D x 30"H with 169 compartments on the left side. Fixed riser shelf (18"H clear height x 18"D) is pre-wired with 6 duplex receptacles connected through a GFCI (ground fault circuit interrupt) receptacle. Bench measures 72"L x 36"W x 32"H (without riser shelf). Includes lighted on/off switch, 15-amp circuit breaker, common grounding point and footrest.

Part No.	Description	Price
190-209	Sentry 100 StaticGard Workbench	\$2,665.00

Price does not reflect additional freight charges to your location, which will be added to your invoice. Call for freight charges.



Heavy-Duty Work Bench

New

Supports Many Different Benching Applications

- Welded steel construction
- Steel roller bearing drawers
- 400-lbs capacity per drawer
- Key-locking
- Drawer compartments/dividers factory installed

This quality, rugged workstation starts with a heavy-duty modular storage drawer cabinet, steel bench legs and hardwood bench top, measuring 60" L x 30" W x 1-3/4" T. Cabinet drawer pedestal offers five drawers with a total of 68 compartments and measures 22-1/2" W x 33" H x 27 3/4" D. Riser shelf with back panel provides an ideal spot for test instruments, supplies and tools, measures 60" L x 14" H x 12" D. Shown with optional end stops sold in pairs (left and right) model number ES330.

Part No.	Model	Description	Price
425-421	A-4	Heavy-Duty Work Bench	\$1,305.90



Heavy-Duty Workstation

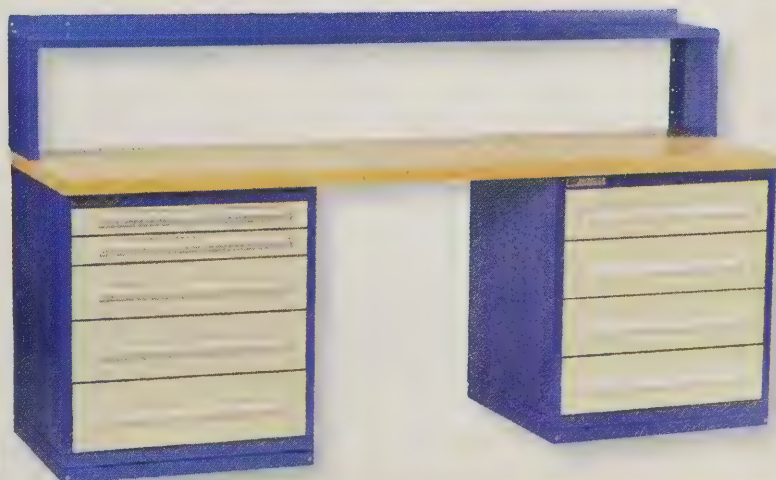
New

Ultimate in Space Utilization

- Welded steel construction
- Steel roller bearing drawers
- 400-lbs capacity per drawer
- Key-locking
- Drawer compartments/dividers factory installed

This rugged, high quality workstation starts with two heavy-duty modular storage drawer cabinets supporting a hardwood work surface, measuring 72" L x 30" W x 1-3/4" T. Cabinet on left offers five drawers with a total of 68 compartments. Cabinet on right offers four drawers with 42 compartments. Both cabinets measure 22-1/2" W x 33" H x 27 3/4" D. Riser shelf provides a storage area for test instruments, supplies and tools, measures 72" L x 14" H x 12" D.

Part No.	Model	Description	Price
425-381	A-7	Heavy-Duty Workstation	\$1,983.40



For an expanded selection of VIDMAR® workstations and accessories call our sales department or visit us at contacteast.com or jensentools.com



Dimension 4 Modular Work Stations

Durable Construction, Ergonomics and Contemporary Design

Fully adjustable

These modular workstations offer 12" wide column with a weight-distributing support groove provides a secure leverage point for the work surface and a wide choice of options. Heavy-gauge steel is used for support beams, shelf risers, drawers, and all weight-bearing elements. Powder epoxy paint is grey, and the trim is Apollo blue. Work surfaces made from heavy industrial grade particle board (1-3/16" thick) feature a rolled front edge and available with standard or ESD-Safe laminate.

Starter Unit (Single-Sided)

This is the first building block for the single-sided system. Starter unit includes two uprights (72" high), modesty support panel (right and left), work surface with support brackets (30" D x 60" L). Work surface offered **standard** (white) or **ESD-safe** (gray).

Part No.	Model	Description	Price
403-562	QS610014	Starter 30" x 60"	\$767.05
403-549	QSE610014	Starter ESD-Safe 30" x 60"	\$920.05

Add-on Unit (Single-Sided)

The single-sided add-on unit allows you to connect additional single-sided stations to create a line of stations. Add-on unit includes one upright (72" high), modesty support panel, work surface with support brackets (30" D x 60" L). Work surface offered **standard** (white) or **ESD-safe** (gray).

Part No.	Model	Description	Price
403-550	QS610044	Adder 30" x 60"	\$513.05
403-551	QSE610044	Adder ESD-Safe 30" x 60"	\$665.05

Optional Accessories

1) Fluorescent Light Fixture

60" light fixture accepts two 48" tubes (not included) and mounts to the uprights. Adjust both up and down as well as in and out. Comes complete with a wrap-around diffuser and an 8-ft. 120VAC power cord.

Part No.	Model	Description	Price
403-552	QS110475	60" Light Fixture	\$244.00

2) Tool Trolley System

Allows the operator to suspend and access tools (such as pneumatic tools) above the work area. Tool trolley mounts to the uprights and comes with a sliding tool hanger.

Part No.	Model	Description	Price
190-904	QS2012452	60" Tool Trolley System	\$132.60

3) Shelving

Available with a standard (white or ESD-safe (gray) surface. Measures (60" L x 12" D) and come with an angle adjusting bracket.

Part No.	Model	Description	Price
403-553	QS110450	60" Shelf, Standard	\$79.15
403-554	QSE110450	60" Shelf, ESD-Safe	\$147.90

4) Parts Bin Rail

Mounts to the uprights and accepts industry standard bins (not included). Adjusts up and down and in and out. Available as standard or ESD-Safe.

Part No.	Model	Description	Price
190-906	QS110492	60" Rail, Standard	\$57.65
403-561	QSE110492	60" Rail, ESD-Safe	\$75.60

5) Electrical Power Strip

Power strip features 8-ft. power cord, three 15A/120VAC duplex outlets, circuit breaker, on/off switch.

Part No.	Model	Description	Price
403-555	QS110483	60" Power Strip	\$134.65

6) Footrest

Footrest features a tube that can be adjusted at any height. Optional ergo foot rest pan attaches to the footrest tube (as shown) and provides full support with a non-skid surface.

Part No.	Model	Description	Price
403-557	QS110462	60" Footrest, Tube Only	\$69.35
403-558	QS110465	Ergo Footrest Pan	\$62.60

7) Drawers 6" High

Made from heavy gauge steel (grey epoxy finish). Drawers feature roller bearings for quiet and smooth operations, recessed handles, lock (each keyed differently). Mount on the left or right side of bench. Inside dimensions 12-1/4" W x 19-1/2" D x 4-3/4" H.

Part No.	Model	Description	Price
403-556	QS110522	6" Drawer	\$137.00

How to order

1. Begin your order with a Starter Unit (select **standard** or **ESD-safe**). Each Starter Unit includes two uprights (72" high), a modesty support panel, a right and a left support bracket for the work surface, and a 30" x 60" (depth x length) work surface.
2. Add to your order the **Optional Accessories** such as lighting, shelving, power strip, drawers, and footrest.

3. Now order one Add-On Unit for each additional station connected side-by-side to the starter unit (select **standard** or **ESD-safe**). Each Add-On Unit includes one upright (72" high), a modesty support panel, a right and a left support bracket for the work surface, and a 30" x 60" (depth x length) work surface. Don't forget to include the optional accessories you need.

Products are shipped knocked down and are properly packaged to ensure safe delivery. Prices do not include freight charges and all shipments are FOB California. Shipping rates are available prior to shipment.

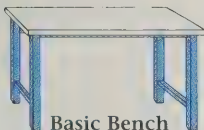


Work Benches

Assemble Together in Minutes

Basic Bench

Bench height is adjustable from 30" to 36" with four leg extenders (included) complete with leg levelling floor-glides. Metal components have a Sky Blue baked-on powder epoxy finish. Work surfaces feature a 1-1/4" thick high-density particle board with non-glare white laminate surface, and rolled front edge. Available in standard or static-dissipative (resistivity of 10^6 - 10^9 ohms/sq.) laminates.



Basic Bench

Undershelf Light (Not Shown)

Fits under the instrument shelf, accepts a standard 48" fluorescent tube (not included) and comes complete with 120VAC 8-ft. power cord, on/off switch.

Electrical Panel for Instrument Shelf

Features three 15A/120VAC duplex outlets plus a circuit breaker, control switch and power light. Does not require any wiring or any electrical connections. Meets UL requirements. Prewired panel fits into riser support on either side or may be used for both sides.

Instrument Shelf

Instrument shelf is available in the same two laminates as the basic bench, standard and static-dissipative. Shelf measures 18" H x 15" D x 1-1/4" T and supported by a rear steel beam and risers on each side. Flange at base of risers wraps around edges of work surface and is bolted into threaded inserts embedded in underside of work surface. Shelf supports up to 500 lbs. of evenly distributed load with a clearance under shelf of 13-3/4".

Power Beams

Features four 15A/120VAC duplex outlets. No wiring is necessary. Meet UL requirements and comes complete with circuit breaker and 8 ft. power cord.

Drawer/Cabinet Assemblies

Mounts under the left, right or both sides of the worksurface and can be stacked. Maximum height of stacked assemblies is: 20" high if you use the footrest, and 25" high if you do not use the footrest. Draw slides offer roller-bearing for smooth movement and comes complete with mounting hardware and knockouts for locks (purchased separately). All locks are keyed differently.



Adjustable Footrest

Chrome-plated tubular footrest may be positioned anywhere between front and rear to accommodate the individual needs of each user.

How to Order

1. Do you need a bench with a **Standard Top** or with a **Static-Dissipative Top**? Please go to the appropriate section.
2. The bench size (depth x length) that you need. On the same line we are listing the optional accessories that fit on your bench. Instrument Shelf, Electrical Panel, Undershelf Light, Power Beam, and Footrest can all be added to your bench for the configuration of your choice.

3. Now please go to the **Drawer/Cabinet Assemblies Table**, and select the drawer or cabinet of your choice.

Products are shipped knocked down and are properly packaged to ensure safe delivery. Prices do not include freight charges and all shipments are FOB manufacturer's plant. Shipping rates are available prior to shipment. Please call our Sales Department, (800) 225-5370. Returns are subject to restocking charges.

Benches with Standard Top

Basic Bench			Instrument Shelf			Electrical Panel		Undershelf Light		Power Beam				Footrest		
Part No.	Size D x L	Price	Part No.	Length	Price	Part No.	Price	Part No.	Price	Part No.	To Fit	Outlets	Price	Part No.	Length	Price
401-927	30" x 60"	\$368.20	121-029	60"	\$194.80	121-017	\$82.00	121-021	\$105.00	121-014	60" Bench	Four Duplex	\$106.00	121-018	60"	\$61.50
401-929	30" x 72"	\$401.90	121-030	72"	\$204.70	121-017	\$82.00	121-021	\$105.00	121-015	72" Bench	Four Duplex	\$115.35	121-019	72"	\$61.50
401-931	36" x 72"	\$430.55	121-030	72"	\$204.70	121-017	\$82.00	121-021	\$105.00	121-015	72" Bench	Four Duplex	\$115.35	121-019	72"	\$61.50

Benches with Static-Dissipative Top

The static dissipative laminate (on both bench and instrument shelf) has a surface resistivity of 10^6 - 10^9 ohms/sq. The bench and shelf come complete with a grounding bolt and grounding cord.

Basic Bench			Instrument Shelf			Electrical Panel		Undershelf Light		Power Beam				Footrest		
Part No.	Size D x L	Price	Part No.	Length	Price	Part No.	Price	Part No.	Price	Part No.	To Fit	Outlets	Price	Part No.	Length	Price
401-928	30" x 60"	\$517.75	120-985	60"	\$288.00	121-017	\$82.00	121-021	\$105.00	121-014	60" Bench	Four Duplex	\$106.00	121-018	60"	\$61.50
401-930	30" x 72"	\$574.00	120-986	72"	\$309.45	121-017	\$82.00	121-021	\$105.00	121-015	72" Bench	Four Duplex	\$115.35	121-019	72"	\$61.50
401-932	36" x 72"	\$640.65	120-986	72"	\$309.45	121-017	\$82.00	121-021	\$105.00	121-015	72" Bench	Four Duplex	\$115.35	121-019	72"	\$61.50

Drawer/Cabinet Assemblies Table

Drawers and cabinets are 15" wide x 18" deep. Maximum height of stacked assemblies 20" high if you use the footrest and 25" high if you do not use the footrest.



Part No.	Description	Price
120-973	Drawer Assembly 6-1/2" High	\$125.25
120-971	Drawer Assembly 12-1/8" High	\$176.85
120-969	Cabinet Assembly 12-1/8" High	\$158.10
121-004	Lock for Drawer/Cabinet	\$12.80

Work Benches are Shipped within 5 Days*

*For Orders of more than 10 stations, shipping time will be longer.

Production BASICS

Modular Work Stations

**Build This Work Station in Minutes...
Only Using an Allen Wrench**

- Total flexibility with modular components
- 12 and 14 gauge steel for structural rigidity
- Powder-coated finish defies scratches, chips and cracks

Open-frame design features top-to-bottom vertical tracks allowing accessories to be positioned where you want them. Adjustable work surface height from 30" to 36" in 2-inch increments. Combine a stand-alone station with add-on stations to create a single-sided multiple station configurations. Ask your sales person for more information on double sided units to create back-to-back units.

Stand-Alone Stations

Frame height is 64" and available with a work surface 30" x 60" or 30" x 72". The work surface height is adjustable and supports 750 lbs. of even distributed load. Constructed from a heavy industrial-grade particle board (1-1/8"), features a heavy-duty bumper edge and available either with a standard (white) or with an ESD-Safe (grey) laminate. ESD-Safe laminate has a resistivity of 10^8 ohms/sq. Powder-coated finish is blue. Stand-alone station includes frame, work surface, and assembly hardware.

Part No.	Model	Material	Description	Price
410-071	1005	Standard	Stand-Alone, 30" x 60"	\$505.00
410-072	1010	Standard	Stand-Alone, 30" x 72"	\$528.00
410-073	1105	ESD-Safe	Stand-Alone, 30" x 60"	\$615.00
410-074	1110	ESD-Safe	Stand-Alone, 30" x 72"	\$654.00

Add-On Stations (Single-Sided)

Unit allows you to connect an additional station to create a line of stations. Each Add-On station includes frame, work surface, and assembly hardware.

Part No.	Model	Material	Description	Price
410-075	1405	Standard	Add-On, 30" x 60"	\$448.00
410-076	1410	Standard	Add-On, 30" x 72"	\$473.00
410-077	1505	ESD-Safe	Add-On, 30" x 60"	\$559.00
410-078	1510	ESD-Safe	Add-On, 30" x 72"	\$598.00

1) Light Assembly

Unit attaches at top of bench frame adding 14" to the overall height of frame. It accepts two 48" (T8) fluorescent tubes (not included). Comes complete with diffuser, switch, 8-ft. 120VAC power cord, overhead attachment arms and hardware. Available for 60" or 72" stations.

Part No.	Model	Description	Price
410-079	8505	60" Light Assembly	\$191.00
410-080	8510	72" Light Assembly	\$203.00

2) Overhead Tool Trolley System

Tool trolley system requires light assembly shown above for attachment. Trolley fits inside the track riding on ball bearing wheels and provides a smooth movement for balanced tools. Optional tool balancer (8357) features a 3 lbs. capacity and variable tension adjustment which mounts to the trolley and supports pneumatic or electric tools.

Part No.	Model	Description	Price
418-352	8343	Tool Trolley System, (60" Wide)	\$46.00
418-353	8346	Tool Trolley System, (72" Wide)	\$50.00
418-354	8357	Optional Tool Balancer	\$66.00



How to Order

1. Begin your order with a Stand-Alone Station. Select the worksurface material (Standard or ESD-Safe) and its size.
2. Add to your order optional accessories. (Lengths of accessories must match length of worksurface). Optional frame splitter for use with 72" wide modular workstations only and accepts 36" wide accessories only.
3. Optional Add-On stations can be connected to the Stand-Alone, to create multiple side-by-

side configurations as shown above (Select Standard or ESD-Safe). Don't forget to include the optional accessories you need.

Products are shipped knocked down and are properly packaged to ensure safe delivery. Prices do not include freight charges and all shipments are FOB Massachusetts. Shipping rates are available prior to shipment. Please call our Sales Department, (800) 225-5370.

Returns are subject to restocking charges.

3) Shelving

Laminate shelves constructed from the same material as the bench top available in standard or ESD-Safe. Features 15" depth, rated to support 200 lbs. Other shelving available; solid metal (black) or open-wire construction (chrome-plated). Both are 12" deep, rated to support 75 lbs. All shelves come complete with mounting brackets. Available for 60" or 72" stations.

Part No.	Model	Material	Description	Price
418-346	8423	Standard	60" Laminate Shelf	\$112.00
418-347	8426	Standard	72" Laminate Shelf	\$121.00
418-348	8433	ESD-Safe	60" Laminate Shelf	\$151.00
418-349	8436	ESD-Safe	72" Laminate Shelf	\$161.00
410-081	8413	Metal	60" Solid Shelf	\$99.00
410-082	8416	Metal	72" Solid Shelf	\$103.00
410-083	8403	Wire	60" Wire Shelf	\$82.00
410-084	8406	Wire	72" Wire Shelf	\$89.00
418-350	8443	Standard	60" Under-Surface Shelf	\$135.00
418-351	8446	Standard	72" Under-Surface Shelf	\$146.00

4) 72" Frame Splitter

For use with 72" wide modular workstations only. Allows a workstation to be divided into two sections for greater flexibility to customize stations with 36" wide accessories only.

Part No.	Model	Description	Price
418-345	8190	72" Frame Splitter	\$90.00

5) Tack Boards/Privacy Panel

Constructed from acoustically core material with a durable blue fabric surface on both sides. Useful as a tack board to hold paper work or as a privacy panel to enclose your workstation. Available for 36" (used with frame splitter Part No. 418-345), 60" or 72" stations.

Part No.	Model	Description	Price
418-367	8729	36" Tack Board/Privacy Panel	\$96.00
418-368	8733	60" Tack Board/Privacy Panel	\$109.00
418-369	8735	72" Tack Board/Privacy Panel	\$118.00



6) Peg Boards

Designed to keep tools and other components off the work-surface. Measures 20" high. Available for 36" (used with frame splitter Part No. 418-345), 60" or 72" stations.

Part No.	Model	Description	Price
418-362	8721	36" Peg Board	\$140.00
418-363	8723	60" Peg Board	\$151.00
418-364	8724	72" Peg Board	\$158.00

7) Overhead Storage Cabinets

Metal cabinets attach directly to the back frame and offers storage for documents and files. Inside measures 15" deep x 15" high. Available for 36" (used with frame splitter Part No. 418-345) or 60" stations.

Part No.	Model	Description	Price
418-356	8553	36" Storage Cabinet	\$218.00
418-357	8551	60" Storage Cabinet	\$258.00

8) Bin Rail

Accepts industrial standard bins (not included) and optional solder spool holder. Available for 36" (used with frame splitter Part No. 418-345), 60" or 72" stations.

Part No.	Model	Description	Price
418-360	8301	36" Bin Rail	\$23.00
410-085	8303	60" Bin Rail	\$28.00
410-086	8306	72" Bin Rail	\$33.00
418-361	8650	Solder Spool Holder	\$30.00

9) PC Accessories

Swing Arm Monitor tray, Part No. 418-301 features a double-arm for easy adjusting, holds up to 40 lbs. and mounts on either side of the vertical tracks.

CPU Holder, Part No. 418-303 mounts vertically under the work surface offering a sliding depth adjustment.

Fully Adjustable Keyboard Support, Part No. 418-343 features a height and angle adjustment.

Keyboard and Mouse Drawer, Part No. 418-344 features a retractable style drawer with built-in wrist rest.

Part No.	Model	Description	Price
418-301	8631	Swing Arm Monitor Tray	\$132.00
418-303	8482	Adjustable CPU Holder	\$102.00
418-343	8680	Adjustable Keyboard Support	\$124.00
418-344	8681	Keyboard Drawer	\$110.00

10) Power Beam

Features four 15A/120VAC duplex outlets, on-off switch, 15A circuit breaker, surge suppressor, and comes complete with a 6' power cord. Available for 36" (used with frame splitter model 8190), 60" or 72" stations.

Part No.	Model	Description	Price
423-998	8319	36" Power Beam	\$93.00
410-087	8323	60" Power Beam	\$108.00
410-088	8326	72" Power Beam	\$114.00

11) Drawers

Made of heavy gauge steel with ball-bearing runners, come complete with cam locks. Outside dimensions 13-1/2" W x 19" D. Mount on the left, right, or both sides. Available in 6" or 12" high.

Part No.	Model	Description	Price
425-349	8605	6" Drawer	\$115.00
425-392	8610	12" Drawer	\$145.00

12) Adjustable Footrest

Consists of a tubular support that attaches to back frame and is height-adjustable.

Part No.	Model	Description	Price
410-089	8666	60" Footrest	\$69.00
410-090	8667	72" Footrest	\$73.00

Production BASICS

Work Bench

Use this versatile bench as the foundation for an efficient work area. Work-surface height is adjustable from 30" to 36". Frame weight capacity 750 lbs. of evenly distributed load.

*** For orders of more than 10 benches, shipping time will be longer**



Basic Bench

Choose between standard (white) or ESD-Safe (grey) work surface available sizes 30" x 60" or 30" x 72". Surface is made of heavy industrial-grade particle board (1-1/8" thick) features a heavy-duty bumper edge. ESD-Safe laminate offers a resistivity of 10⁸ oms/sq. and comes complete with grounding cord.

Part No.	Model	Work Surface	Size	Price
418-170	3005	Standard	30" x 60"	\$350.00
418-171	3010	Standard	30" x 72"	\$386.00
418-172	3105	ESD-Safe	30" x 60"	\$483.00
418-173	3110	ESD-Safe	30" x 72"	\$535.00

1) Riser Instrument Shelf

This 20" high shelf is 18" deep and 1-1/8" thick. Clearance under shelf is 16-3/4". When ordering, please make sure the length of the shelf matches the length of your bench.

Part No.	Model	Work Surface	Size	Price
418-176	8468	Standard	18" x 60"	\$161.00
418-177	8469	Standard	18" x 72"	\$171.00
418-178	8472	ESD-Safe	18" x 60"	\$235.00
418-179	8473	ESD-Safe	18" x 72"	\$245.00

2) Power Beam

Features three 15A/120VAC duplex outlets. No wiring is necessary to install these power beams comes with 6" power cord.

Part No.	Model	Description	Price
410-087	8323	60" Power Beam	\$108.00
410-088	8326	72" Power Beam	\$114.00

3) 6" Drawer

Heavy duty with ball-bearing runners and complete with cam lock. Outside dimensions are 13-1/2" W x 19" D x 6" H.

Part No.	Model	Description	Price
425-349	8605	6" Drawer	\$115.00

4) Under-Surface Shelf

Shelf attaches under bench for added storage.

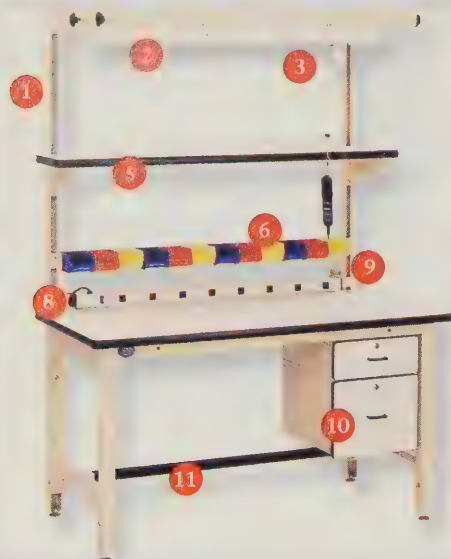
Part No.	Model	Description	Price
418-174	8477	Under-Surface Shelf, 60"	\$67.00
418-175	8478	Under-Surface Shelf, 72"	\$72.00

How to Order

1. Begin your order with the basic bench. Select the work-surface material (Standard or ESD-Safe).
2. Select the bench size (depth x length) that you need.
3. Add to your order the optional accessories such as riser shelf, power beam, under-surface shelf and drawer. (Lengths of accessories must match length of worksurface).

Products are shipped knocked down and are properly packaged to ensure safe delivery. Prices do not include freight charges and all shipments are FOB Massachusetts. Shipping rates are available prior to shipment. Please call our Sales Department, (800) 225-5370.

Returns are subject to restocking charges.



HD Work Stations

- 1000 lbs. capacity

Use this versatile heavy-duty four legged bench as the foundation for an efficient work station. Available with either Standard or ESD-Safe work surface in two sizes (30" x 60") or (30" x 72"). The work surface height is fixed at 30". For adjustable bench height, optional 6" leg extenders (Part No. 419-721) are available. Frame is constructed from heavy 16 gauge, 2" square tube legs with a high quality powder-coat paint finish. Work surface constructed from heavy industrial-grade particle board (1-1/8") and features a heavy-duty bumper edge. Frame color available in two standard colors beige or blue. Append appropriate suffix to the part number shown to indicate color preference with your order; beige (B) or blue (L).

Part No.	Description	Size D x L	Price
418-463	Standard Top	30" x 60"	\$336.00
418-465	Standard Top	30" x 72"	\$370.00
418-464	ESD-Safe Top	30" x 60"	\$362.00
418-466	ESD-Safe Top	30" x 72"	\$536.00
419-721	Optional Leg Extenders	-	\$39.00

Accessories shown on page 403

ERGO-LINE Work Stations

Height Adjustable with the Turn of a Crank

- 330 lbs. capacity
- Adjustable height (30" - 42")

Changing positions during your work process can greatly reduce repetitive motion injuries and increase productivity. Ergo-Line (ergonomically designed benches) allows operators of all sizes to change the work surface height easily with a few turns of the hand crank. Available with either Standard or ESD-Safe work surface in two sizes (30" x 60") or (30" x 72"). Frame color available in two standard colors beige or blue. Append appropriate suffix to the part number shown to indicate color preference with your order; beige (B) or blue (L).

Part No.	Description	Size D x L	Price
418-467	Standard Top	30" x 60"	\$1,115.00
418-469	Standard Top	30" x 72"	\$1,173.00
418-468	ESD-Safe Top	30" x 60"	\$1,257.00
418-470	ESD-Safe Top	30" x 72"	\$1,528.00

Accessories shown on page 403

Millennium II Work Stations

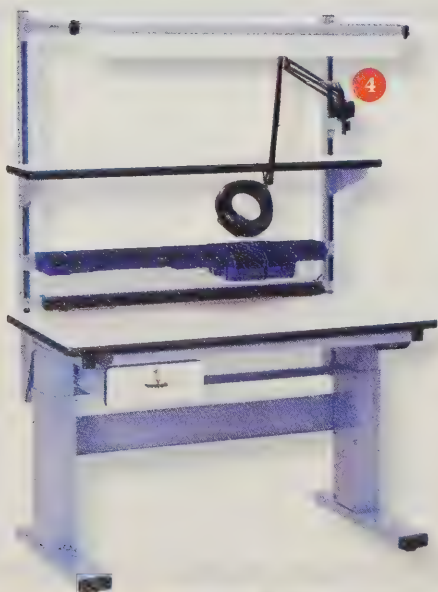
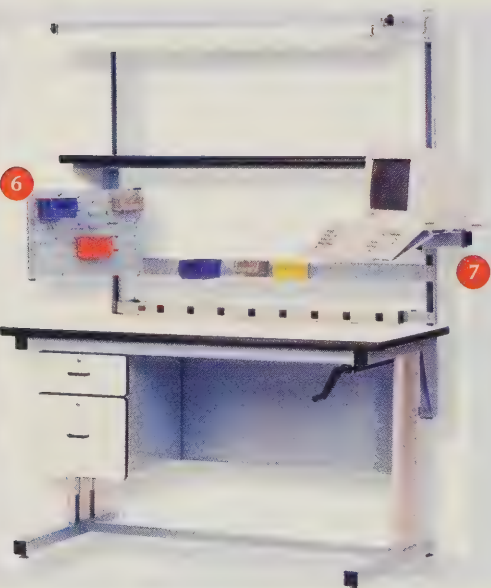
Bench Adjusts to an Ergonomic Height with the Push of a Button

- 1000 lbs. capacity
- UL and CSA approved motor and control box
- Four-position programmable height memory switch
- Adjustable height (30-1/2" - 46-1/2") at 1/2" per second

Electric motor raises work surface from (30-1/2" - 46-1/2") at a rate of 1/2" per second. Programmable switch allows operator to program up to three heights into memory or use the override up and down switch for the height you need. Available with either Standard or ESD-Safe work surface in two sizes (30" x 60") or (30" x 72"). Frame color available in two standard colors beige or blue. Append appropriate suffix to the part number shown to indicate color preference with your order; beige (B) or blue (L).

Part No.	Description	Size D x L	Price
418-471	Standard Top	30" x 60"	\$1,611.00
418-473	Standard Top	30" x 72"	\$1,667.00
418-472	ESD-Safe Top	30" x 60"	\$1,752.00
418-474	ESD-Safe Top	30" x 72"	\$1,832.00

Accessories shown on page 403



**How to Order**

1. Start your order by selecting your basic bench style (HD, Ergo-Line or Millennium II).
2. Choose surface laminate (Standard or ESD-Safe) and then your size (Depth and Length).
3. Add to your order the optional accessories to meet your specific needs (accessories 2-9 require upright supports Part No. 418-475).

Products are shipped knocked down or fully assembled (please specify preference at time of order). Prices do not include freight charges and all shipments are FOB manufacturer's plant Massachusetts. Shipping rates are available prior to shipment. Returns are subject to freight and restocking charges.

1) Accessory Uprights

Uprights provide attachment of accessories to your basic bench and extend 48" above work surface. Append appropriate suffix to the part number shown to indicate color to match your bench; beige (B) or blue (L). Come complete with mounting hardware. Uprights are sold in pairs.

Part No.	Description	Price
418-475	Accessory Uprights (pair)	\$55.00

2) Light Assembly

Light assembly attaches at top of upright supports and offers 3 way adjustable light assembly (front to back and swivel). Accepts two 48" fluorescent bulbs (not included). Comes complete with on/off switch, 9-ft. 120VAC power cord, overhead attachment arms and hardware. Append appropriate suffix to the part number shown to indicate color to match your bench; beige (B) or blue (L).

Part No.	Description	Price
418-476	60" Light Assembly	\$197.00
418-477	72" Light Assembly	\$208.00

3) Overhead Tool Trolley

Tool trolley suspension frame requires the overhead light assembly for attachment. Comes complete with 2 tool trolleys which fits into frame providing a smooth movement for balanced tools. Append appropriate suffix to the part number shown to indicate color to match your bench; beige (B) or blue (L). Optional tool balancer (Part No. 417-720) holds tools up to 5 lbs.

Part No.	Description	Price
419-718	60" Overhead Tool Trolley	\$84.00
419-719	72" Overhead Tool Trolley	\$89.00
419-720	Tool Balancer	\$65.00

Work Stations are Shipped within 5 Days*

Work stations are shipped knocked down or fully assembled. Please specify preference at time of order.

*For orders of more than 10 stations, shipping time will be longer.

4) Magnifier Mounting Bracket

Bracket mounts to uprights at any height for attachment of illuminated magnifier or document holder (not included). Append appropriate suffix to the part number shown to indicate color to match your bench; beige (B) or blue (L).

Part No.	Description	Price
419-722	Mounting Bracket	\$39.00

5) Shelving

Features 12" or 18" depth, rated to support 125 lbs. All shelves come complete with mounting supports. Append appropriate suffix to the part number shown to indicate color to match your bench; beige (B) or blue (L).

Part No.	Material	Description	Price
418-478	Standard Laminate	12" x 60" Shelf	\$113.00
418-479	Standard Laminate	12" x 72" Shelf	\$127.00
418-482	Standard Laminate	18" x 60" Shelf	\$167.00
418-483	Standard Laminate	18" x 72" Shelf	\$187.00
418-480	ESD-Safe Laminate	12" x 60" Shelf	\$160.00
418-481	ESD-Safe Laminate	12" x 72" Shelf	\$183.00
418-484	ESD-Safe Laminate	18" x 60" Shelf	\$238.00
418-485	ESD-Safe Laminate	18" x 72" Shelf	\$271.00

6) Bin Rail

Bin rail and bin panel accept industrial standard bins (not included). Bin panel mounts to uprights, and features an articulating arm that locks in two positions. Measures 17" H x 18" W. Append appropriate suffix to the part number shown to indicate color to match your bench; beige (B) or blue (L).

Part No.	Description	Price
418-486	60" Bin Rail	\$27.00
419-723	72" Bin Rail	\$30.00
418-499	Bin Panel	\$226.00

7) Monitor Arm with Key Board Tray

Articulating monitor arm features a clip on key-board tray and mounting bracket. Platform measures 14" x 14", holds up to 40 lbs. and extends up to 27-1/2" from uprights. Append appropriate suffix to the part number shown to indicate color to match your bench; beige (B) or blue (L).

Part No.	Description	Price
418-498	Monitor Arm with Key Board Tray	\$131.00

8) Power Beam

Features eight 15A/120VAC outlets, on-off switch, and comes complete with an 6-ft. power cord. Measures 48" long and mounts directly to bench or optional mounting rail allows mounting to upright system. Append appropriate suffix to the part number shown to indicate color to match your bench; beige (B) or blue (L).

Part No.	Description	Price
418-491	Power Beam	\$66.00
418-492	60" Mounting Rail	\$28.00
418-493	72" Mounting Rail	\$30.00

9) Air Supply Fittings

Air supply fittings easily mount into recepticals at either end of the electrical supply mounting rail providing a connection for shop air. Sold by the each.

Part No.	Description	Price
418-488	Air Supply Fitting	\$24.00

10) Drawers

Comes complete with mounting hardware and individual drawer locks. Outside dimensions 15" wide x 19-1/4" deep. May be mounted on the left, right, or both sides of bench. Available 6" or 12" high. Append appropriate suffix to the part number shown to indicate color to match your bench; beige (B) or blue (L).

Part No.	Description	Price
418-494	6" Drawer	\$159.00
418-495	12" Drawer	\$194.00

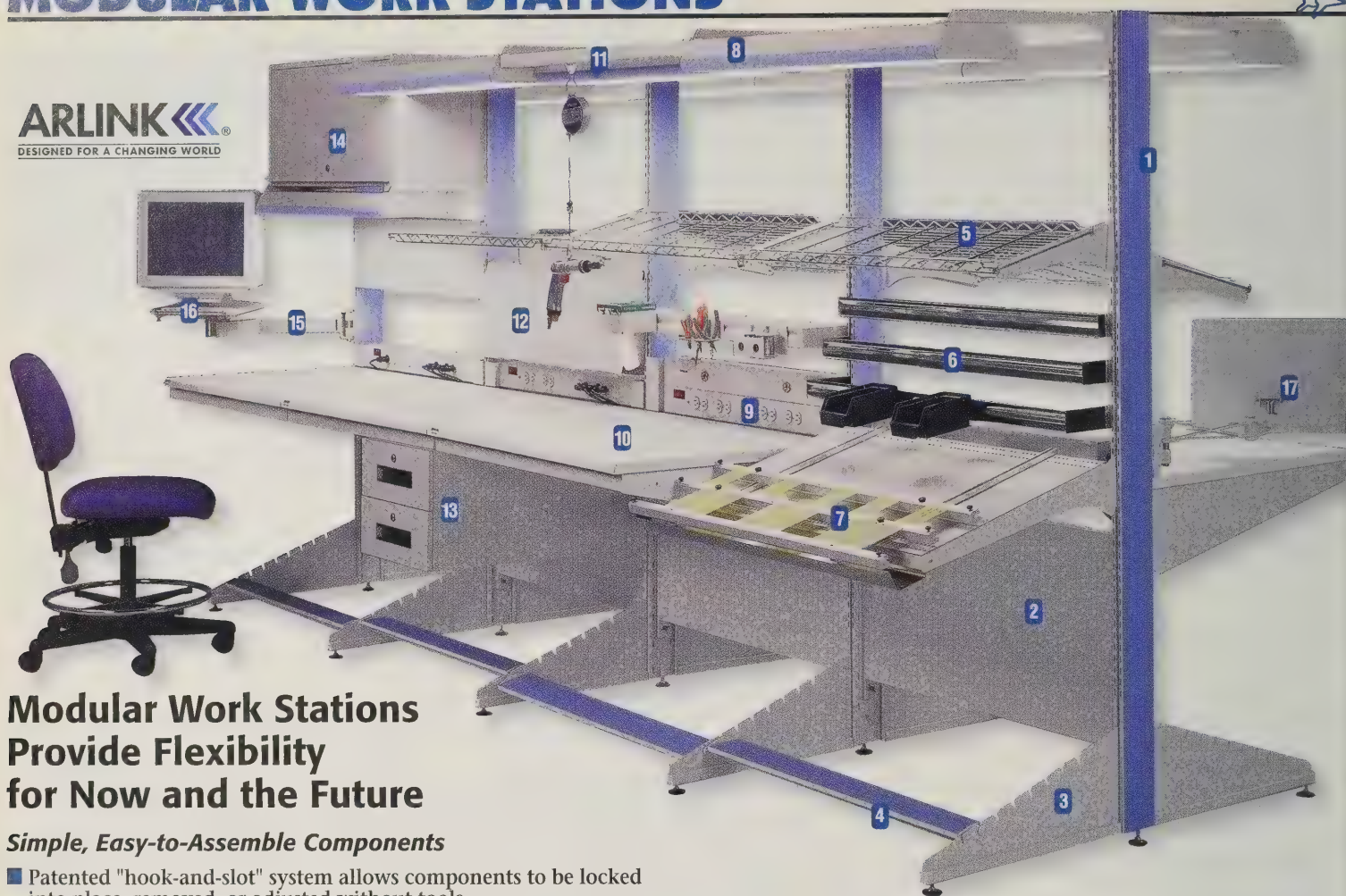
11) Footrest

Constructed from heavy gauge steel and painted to match frame color. Shown with optional footrest guard (black vinyl cover for additional comfort and appearance). Available for 60" or 72" stations. Append appropriate suffix to the footrest part number to indicate color to match your bench; beige (B) or blue (L).

Part No.	Description	Price
418-489	60" Footrest	\$33.00
418-490	72" Footrest	\$36.00
418-496	60" Footrest Guard	\$16.00
418-497	72" Footrest Guard	\$18.00



ARLINK 
DESIGNED FOR A CHANGING WORLD



Modular Work Stations Provide Flexibility for Now and the Future

Simple, Easy-to-Assemble Components

- Patented "hook-and-slot" system allows components to be locked into place, removed, or adjusted without tools
- Set-up or change station's configuration in minutes

Arlink Series 8000 work station system meets the demands of today's manufacturing, service facilities and Class 10,000 Cleanrooms. Offering unlimited flexibility and support of ergonomics. System uses interchangeable modular parts allowing a custom configured workstation layout. Virtually no hardware or tools are required and reconfiguration is error proof due to its simplicity.

1) VERTICAL SUPPORT COLUMNS

Columns have two parallel rows of slots on 1" centers and between them, one column of slots on 3" centers. Slots on 1" increments support lighter components such as bin rails and power beams. Slots on 3" centers take the brackets that support work surfaces, shelving, and light canopies. Columns are slotted on both sides for side-by-side and back-to-back applications. Available: in two heights 72" and 54". Columns come with colored snap-in trim panels and require outriggers (Part No. 120-737).

2) STABILIZER PANEL

19" H steel panel attaches to vertical columns forming a rigid support structure.

3) OUTRIGGERS

Notched outriggers extend 22" from columns to support stations firmly.

4) SWIVEL FOOTREST

Contoured shape pivots to conform to operator's instep.

5) OPEN WIRE SHELF

(Adjustable 0°, 15° and 30° angle)
Heavy-duty wire with chrome-plated finish. Flat steel shelves also available. See price list. Supports 300 pounds, evenly distributed load.

6) PARTS BIN RAIL

Accepts industry standard bins and is available in 2", 4" and 6" depths for tiered placement. Chrome plated (Bins not included).

7) PCB ASSEMBLY RAILS

(Worksurface assembly cannot be used. Flat Steel Shelf required.)

Hold PCB's during assembly. Slide rails are easily adjusted to accept PCB's or pallets up to 15" wide. Two or more can be linked to form a progressive assembly line allowing PCB's to slide freely from operator to operator. Comes complete with 2 rails and catch trough. An additional rail may be ordered for 3 rail use as shown.

8) LIGHTING CANOPY

Dual 120VAC 40-watt fluorescent fixture provides up to 175 ft. candles at work surface. Can be raised or lowered for control over light intensity. Includes 6' (3-wire) power cord and plug. (fluorescent tubes not included).

9) POWER BEAM

Available single or double-sided. Each side has eight 15A/120VAC outlets, illuminated on/off power switch, circuit breaker and a 6-ft. 3-wire cord.

10) WORK SURFACE ASSEMBLIES

(Adjustable 0°, 15°, and 30° angle)
Non-glare laminate bonded to high-density particle board with radiused front edge. Choice of standard or static-dissipative (10⁶ - 10⁸ ohms) laminate. Supports 500 pounds, evenly distributed load. All supports included.

11) TOOL TROLLEY AND TRACK ASSEMBLY

Mounts on fluorescent light canopy. (Tool balancer not included) Smooth moving glide keeps tools readily available, and out of the way when not needed.

12) SLOPING DOCUMENT SHELF

Vertical shelf has 15° inclination and 2" lip to hold manuals and drawings. Includes mounting brackets.

13) DRAWER ASSEMBLIES

Come with mounting hardware, lock and two keys with full extension slides.
Single drawer (not shown)
6-1/2" H x 15" W x 23" D
Double drawer (shown above)
13" H x 15" W x 23" D

14) STORAGE CABINET

Includes pull down door, lock, and two built-in dividers. Undercabinet light fixture not included.

15) CRT SWING ARM

18" long. Requires universal bracket (Part No. 120-780)

16) CRT HOLDER

(14" x 14") Provides solid base for a monitor. Must be used with CRT swing arm (Part No. 407-350).

17) SWING ARM ACCESSORIES

Document Holder may be set at any angle. Requires one or more swing arms (available in 8" and 16" lengths), also requires one universal bracket.

Swing Arms available in 8" or in 16" lengths and require universal bracket for attachment.

Visit
www.contacteast.com
For Arlink Quick Pick
Modular Work
Stations



ARLINK 
DESIGNED FOR A CHANGING WORLD

Series 8000 Work Stations

- Baked enamel gray finish
- Interchangeable trim colors
- Class 10,000 cleanroom certified
- Assemblies available as mobile units (not shown)



Stand Alone



Side-by-Side



Back-to-Back

HOW TO ORDER

1. Select the size to fit your individual needs. Available in 36", 48" and 60" Work Stations.
2. Begin with a Starter Assembly. Includes two vertical support columns with snap-in colored trim panels, and one stabilizer panel.
3. Next order one Adder Assembly for each additional station connected side-by-side to the starter. Includes one vertical support column with snap-in colored trim panel and one stabilizer panel.

4. Determine how many Outriggers you will need per column: each vertical support column will need one Outtrigger for stand alone or side-by-side configuration, and two Outriggers per column for back-to-back configuration.

Now you have a basic structure ready for a variety of options such as work surface (Standard or Static-Dissipative), lighting, shelving, power beam, footrest, etc.

5. Choose your accent trim color for vertical column, footrest and light canopy (specify trim color with order). All metal components feature a gray baked enamel finish.

Products are shipped knocked down and properly packaged for safe delivery with simple instructions & hardware. Prices do not include freight charges, and shipments are FOB manufacturer's plant. Shipping rates are available prior to shipment. Please call our Sales Department at (800) 225-5370. Returns are subject to restocking charge.

Options for Accent Trim

(B) Std. Blue	(P) Periwinkle	(W) Off-White	(G) Gray
(C) Coral	(T) Teal	(DB) Dark Blue	(BLK) Black

36" Work Station

Part No.	Model	Description	Price
120-876	8897	Starter Assembly (54" height)	\$265.60
120-901	8901	Starter Assembly (72" height)	\$307.80
120-888	8899	Adder Assembly (54" height)	\$156.80
120-915	8906	Adder Assembly (72" height)	\$191.80
120-737	8044	Outtrigger	\$37.40
120-929	8911	Swivel Footrest	\$63.40
120-938	8924	Standard Work Surface Assembly (36"L x 28"D)	\$274.55
120-963	8994	Static Dissipative Surface Assembly (36"L x 28"D)	\$397.10
120-942	8927	Open Wire Shelf 36" x 12" deep	\$84.45
120-756	8321	Flat Steel Shelf 36" x 12" deep	\$78.80
120-759	8331	Flat Steel Shelf 36" x 14" deep	\$81.50
120-762	8341	Flat Steel Shelf 36" x 16" deep	\$82.35
120-765	8351	Flat Steel Shelf 36" x 18" deep	\$90.55
120-768	8361	Flat Steel Shelf 36" x 20" deep	\$84.45
120-772	8363	Flat Steel Shelf 36" x 22" deep	\$78.85
120-864	8890L	120VAC Fluorescent Light Assembly	\$172.00
120-949	8941	120VAC Power Beam (single-sided)	\$133.05
120-952	8946	120VAC Power Beam (double-sided)	\$207.80
120-956	8956	Storage Cabinet	\$452.40
120-731	8033	Chatter Screen 36" x 20"	\$111.15
407-353	8975	Tool Trolley & Track Assembly 36" (Requires Fluorescent Light Assembly)	\$51.25
407-356	8316	Sloping Document Shelf 36"	\$99.90
120-854	8841	Single Drawer Assembly (6 1/2"H x 15"W x 23"D)	\$152.80
407-352	8844	Double Drawer Assembly (13" H x 15" W x 23" D)	\$330.30
120-936	8918	Document Holder 12" x 14" (Requires Swing Arm)	\$61.70
120-776	8408	Swing Arm 8"	\$30.90
120-778	8416	Swing Arm 16" (Requires Universal Bracket)	\$48.70
120-780	8420	Universal Bracket	\$32.60
407-350	8417	CRT Swing Arm 18" (Requires Universal Bracket)	\$90.85
407-351	8919	CRT Holder 14" x 14"	\$128.00
120-750	8243	Parts Bin Rail 36" x 2" deep	\$37.40
120-751	8244	Parts Bin Rail 36" x 4" deep	\$37.40
120-752	8245	Parts Bin Rail 36" x 6" deep	\$37.40
120-945	8936	PCB Assembly Rail System (Requires 22" Flat Steel Shelf)	\$138.70

48" Work Station

Part No.	Model	Description	Price
120-870	8896	Starter Assembly (54" height)	\$269.65
120-895	8900	Starter Assembly (72" height)	\$318.60
120-882	8898	Adder Assembly (54" height)	\$174.10
120-908	8905	Adder Assembly (72" height)	\$204.60
120-737	8044	Outtrigger	\$37.40
120-922	8910	Swivel Footrest	\$66.70
120-937	8923	Standard Work Surface Assembly (48"L x 28"D)	\$319.35
120-962	8992	Static Dissipative Surface Assembly (48"L x 28"D)	\$458.95
120-940	8925	Open Wire Shelf 48" x 12" deep	\$88.45
120-755	8320	Flat Steel Shelf 48" x 12" deep	\$69.90
120-758	8330	Flat Steel Shelf 48" x 14" deep	\$63.00
120-761	8340	Flat Steel Shelf 48" x 16" deep	\$70.70
120-764	8350	Flat Steel Shelf 48" x 18" deep	\$70.20
120-767	8360	Flat Steel Shelf 48" x 20" deep	\$79.55
120-770	8362	Flat Steel Shelf 48" x 22" deep	\$84.45
120-858	8880L	120VAC Fluorescent Light Assembly	\$179.90
120-947	8940	120VAC Power Beam (single-sided)	\$132.80
120-951	8945	120VAC Power Beam (double-sided)	\$191.30
120-954	8955	Storage Cabinet	\$491.55
120-730	8031	Chatter Screen 48" x 20"	\$124.45
407-354	8976	Tool Trolley & Track Assembly 48" (Requires Fluorescent Light Assembly)	\$60.20
407-357	8315	Sloping Document Shelf 48"	\$105.90
120-854	8841	Single Drawer Assembly (6 1/2"H x 15"W x 23"D)	\$152.80
407-352	8844	Double Drawer Assembly (13" H x 15" W x 23" D)	\$330.30
120-936	8918	Document Holder 12" x 14" (Requires Swing Arm)	\$61.70
120-776	8408	Swing Arm 8"	\$30.90
120-778	8416	Swing Arm 16" (Requires Universal Bracket)	\$48.70
120-780	8420	Universal Bracket	\$32.60
407-350	8417	CRT Swing Arm 18" (Requires Universal Bracket)	\$90.85
407-351	8919	CRT Holder 14" x 14"	\$128.00
120-746	8240	Parts Bin Rail 48" x 2" deep	\$38.35
120-747	8241	Parts Bin Rail 48" x 4" deep	\$39.85
120-749	8242	Parts Bin Rail 48" x 6" deep	\$35.80
120-944	8935	PCB Assembly Rail System (Requires 22" Flat Steel Shelf)	\$157.85

60" Work Station

Part No.	Model	Description	Price
120-817	8601	Starter Assembly (54" height)	\$285.50
120-811	8600	Starter Assembly (72" height)	\$336.20
120-829	8606	Adder Assembly (54" height)	\$197.65
120-823	8605	Adder Assembly (72" height)	\$234.40
120-737	8044	Outtrigger	\$37.40
120-835	8610	Swivel Footrest	\$80.45
120-841	8620	Standard Work Surface Assembly (60"L x 28"D)	\$337.40
120-842	8622	Static Dissipative Surface Assembly (60"Lx28"D)	\$476.50
120-843	8625	Open Wire Shelf 60" x 12" deep	\$98.30
120-786	8482	Flat Steel Shelf 60" x 12" deep	\$132.65
120-787	8484	Flat Steel Shelf 60" x 16" deep	\$143.40
120-788	8486	Flat Steel Shelf 60" x 20" deep	\$162.50
120-847	8680L	120VAC Fluorescent Light Assembly	\$193.20
120-844	8640	120VAC Power Beam (single-sided)	\$174.75
120-845	8645	120VAC Power Beam (double-sided)	\$232.40
120-846	8650	Storage Cabinet	\$632.40
120-781	8453	Chatter Screen 60" x 20"	\$138.75
407-355	8633	Tool Trolley & Track Assembly 60" (Requires Fluorescent Light Assembly)	\$66.65
407-358	8455	Sloping Document Shelf 60"	\$120.40
120-854	8841	Single Drawer Assembly (6 1/2"H x 15"W x 23"D)	\$152.80
407-352	8844	Double Drawer Assembly (13" H x 15" W x 23" D)	\$330.30
120-936	8918	Document Holder 12" x 14" (Requires Swing Arm)	\$61.70
120-776	8408	Swing Arm 8"	\$30.90
120-778	8416	Swing Arm 16" (Requires Universal Bracket)	\$48.70
120-780	8420	Universal Bracket	\$32.60
407-350	8417	CRT Swing Arm 18" (Requires Universal Bracket)	\$90.85
407-351	8919	CRT Holder 14" x 14"	\$128.00
120-783	8478	Parts Bin Rail 60" x 2" deep	\$44.55
120-784	8479	Parts Bin Rail 60" x 4" deep	\$45.30
120-785	8480	Parts Bin Rail (60" W x 6" D)	\$45.30
401-907	8637	PCB Assembly Rail System (Requires 20" Flat Steel Shelf)	\$168.90

Quantity Discounts Available



Work Benches

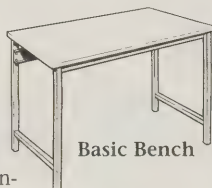
Ideal for Assembly, Test and Repair Areas

These benches feature a heavy duty frame and a high density particle board work surface. The top is laminated and the underside is sealed against moisture, front edge is contoured for comfort. Benches consist of a work surface fastened to a leg frame and are assembled in three easy steps.

*For Orders of more than 10 benches, shipping time will be longer

Basic Bench

Bench supports up to 1000 lbs. of distributed load. Work surface top is 1-1/2" thick high-density particle board with non-glare, (grey) laminate. Work surface top is available with standard or static-dissipative (106 - 109 ohms) laminate. Bench height is adjustable from 30" to 36" and features a grey baked enamel finish.



Basic Bench

Undershelf Light (Not Shown)

48" light fixture fastens to underside of riser shelf with wood screws. Includes acrylic diffuser, power cord and rocker switch. 48" fluorescent tube (not included).

Electrical Panel for Box Support

This panel is pre-wired and does not require any wiring. It fits in the shelf's box support, and features four 15A/120VAC duplex outlets, and an illuminated circuit breaker. This panel can be used on one or on both shelf supports, and comes complete with an 8 ft. power cord. Baked enamel gray finish to match bench.

Riser Shelf with Box Supports

Like the work surface for the bench, the work surface for the riser shelf is available in standard or static-dissipative laminate. Shelf is 14" deep, 1-1/2" thick, and supports 300 lbs. of distributed load. Clearance under shelf 19". Steel box supports screw into riser and into work surface.

Power Beams

Feature built-in 15A/120VAC duplex outlets and breaker switch. No wiring is necessary. Beams are CSA approved, come complete with 8-ft. 3-wire power cord. Mounts on the work surface or on the riser shelf.

Drawer Assemblies

Drawer assemblies are 23" deep x 15" wide and mountable under the left, right, or both sides of the work surface. Only one drawer assembly can be mounted on each side of bench. Constructed from steel, drawers feature full extension slides, recessed pulls, individual drawer locks (keyed differently), multiple drawer assemblies (locks keyed alike) and come with an grey epoxy finish to match the bench. Drawer assemblies are available for 30" or 36" deep benches.



Footrest

Heavy gauge channel steel footrest. Grey epoxy finish to match bench.

How to Order

1. Do you need a bench with a **Standard Top** or with a **Static-Dissipative Top**? Please go to the appropriate section.
2. Select the bench size (depth x length) that you need. On the same line we are listing the optional accessories that fit on your bench.

Riser Shelf, Electrical Panel, Undershelf Light, Power Beam, and Footrest can all be added to your bench for the configuration of your choice.

3. Now please go to the **Drawer Assemblies Table**, and select a drawer assembly for your bench.

Products are shipped knocked down and are properly packaged to ensure safe delivery. Prices do not include freight charges and all shipments are FOB manufacturer's plant. Shipping rates are available prior to shipment. Please call our Sales Department, **(800) 225-5370**. Returns are subject to restocking charges.

Benches with Standard Top

Basic Bench			Riser Shelf			Electrical Panel		Undershelf Light		Power Beam				Footrest		
Part No.	Size D x L	Price	Part No.	Length	Price	Part No.	Price	Part No.	Price	Part No.	To Fit	Outlets	Price	Part No.	Length	Price
403-780	30" - 60"	\$451.30	403-786	60"	\$198.80	403-790	\$72.65	403-793	\$96.45	403-791	60" Bench	Four Duplex	\$105.90	403-794	60"	\$24.65
403-781	30" - 72"	\$485.50	403-787	72"	\$250.10	403-790	\$72.65	403-793	\$96.45	403-792	72" Bench	Five Duplex	\$111.85	403-795	72"	\$28.55
403-782	36" - 72"	\$527.25	403-787	72"	\$250.10	403-790	\$72.65	403-793	\$96.45	403-792	72" Bench	Five Duplex	\$111.85	403-795	72"	\$28.55



Benches with Static-Dissipative Top

The static dissipative laminate (on both bench and riser shelf) has a surface resistivity of 106 - 109 ohms/sq. The bench and shelf come complete with a grounding bolt and grounding cord.

Basic Bench			Riser Shelf			Electrical Panel		Undershelf Light		Power Beam				Footrest		
Part No.	Size D x L	Price	Part No.	Length	Price	Part No.	Price	Part No.	Price	Part No.	To Fit	Outlets	Price	Part No.	Length	Price
403-783	30" x 60"	\$585.25	403-788	60"	\$288.25	403-790	\$72.65	403-793	\$96.45	403-791	60" Bench	Four Duplex	\$105.90	403-794	60"	\$24.65
403-784	30" x 72"	\$638.50	403-789	72"	\$352.60	403-790	\$72.65	403-793	\$96.45	403-792	72" Bench	Five Duplex	\$111.85	403-795	72"	\$28.55
403-785	36" x 72"	\$709.30	403-789	72"	\$352.60	403-790	\$72.65	403-793	\$96.45	403-792	72" Bench	Five Duplex	\$111.85	403-795	72"	\$28.55

Drawer Assemblies Table

Do you have a 30" or 36" deep bench? Please refer to the appropriate section shown at right.

These assemblies will only fit a **30" deep bench**. Only one drawer assembly can be mounted on each side of bench.

Part No.	Description	Height of Assembly	Price
403-796	Single Drawer Assembly	6-1/2"	\$139.55
403-797	Two Drawer Assembly	13"	\$334.70
403-798	Three Drawer Assembly	19-1/2"	\$502.95
403-799	Box/File Drawer Assembly	19-1/2"	\$337.50

These assemblies will only fit a **36" deep bench**. Only one drawer assembly can be mounted on each side of bench

Part No.	Description	Height of Assembly	Price
403-800	Single Drawer Assembly	6-1/2"	\$139.55
403-801	Two Drawer Assembly	13"	\$334.70
403-802	Three Drawer Assembly	19-1/2"	\$502.95
403-803	Box/File Drawer Assembly	19-1/2"	\$348.05



Sit-Stands

Model 3555

Reduces Fatigue Where Permanent Seating Is Not Practical

- Class 1 clean room compatible (model 3555)
- 12-year guarantee
- Pneumatic cylinder has a lifetime warranty
- Seat tilt and height adjustable

Sit-Stands allow you to work in an upright position while most of your weight rests on the seat, taking the load off legs and feet. Features a soft-formed polyurethane seat (13" x 13") height adjustable from 22" - 32". Comes standard with five nylon glides for stability. Available in two models: Model 3555 comes with a chrome polished aluminum 25" base. Model 3505 comes with a black reinforced plastic 25" base. Prices do not include freight charges and all shipments are FOB Wisconsin. Shipping rates are available prior to shipment.

Part No.	Model	Description	Price
418-327	3555	Sit-Stand, Chrome Polished Aluminum Base	\$189.95
418-328	3505	Sit-Stand, Black Reinforced Plastic Base	\$184.10

Model 3505

Models 5200 and 5600 Ergonomic Industrial Chairs

Choose Fabric or Vinyl Upholstery

- 12 year guarantee
- Pneumatic seat height adjustment
- Pneumatic cylinder has lifetime warranty
- Back height and depth adjustments

Seat measures (18" W x 17" D with 2-3/4" thick foam), back (16" W x 10" H with 2" thick foam). Features a 22" diameter, 5-leg steel tubular base with a 19" diameter welded chrome foot ring. Upholstery meets California Flammability Bulletin 117. Chairs are tested and meet ANSI/BIFMA Standards and come with polyurethane mushroom glides. Two types of optional dual-wheel casters are available. Hard floor casters (model CADS/5) or carpet casters (model CAD/5). Casters add 1" to seat height. Prices do not include freight charges and shipments are FOB Wisconsin. Shipping rates are available prior to shipment.

Part No.	Model	Seat Height Adjustment	Material	Color	Price
411-396	5200	20" - 25"	Fabric	Black	\$207.65
411-397	5200	20" - 25"	Fabric	Royal Blue	\$207.65
411-398	5200	20" - 25"	Fabric	Grey	\$207.65
411-399	5200	20" - 25"	Vinyl	Black	\$207.65
411-400	5600	25" - 30"	Fabric	Black	\$211.30
411-401	5600	25" - 30"	Fabric	Royal Blue	\$211.30
411-402	5600	25" - 30"	Fabric	Grey	\$211.30
411-403	5600	25" - 30"	Vinyl	Black	\$211.30

Models 5200 and 5600 Accessories

Part No.	Model	Description	Material	Price
411-394	CADS/5	Hard Floor Casters 5/set	Polyurethane	\$19.40
411-395	CAD/5	Carpet Casters 5/set	Polyurethane	\$7.90

* Prices shown for casters is based on ordering without a chair.

If casters are ordered with a BEVCO chair discount will be honored.

Value-Line® Upholstered Chairs



Low-Cost and Meets Standards for Quality, Durability and Safety

- Stain resistant fabric
- 3 year warranty on all components
- Pneumatic seat height adjustment
- Back tilt, 360° swivel

Seat measures (18" W x 18" D) and back (16" W x 15" D). Chairs feature a 5-leg nylon reinforced base. Available with or without footring and comes complete with glides or dual-wheel non-braking casters. Chairs tested and complies with ANSI/BIFMA X5.1 standards. Choose blue or gray fabric. Also available in black and burgundy please inquire with our sales department. Prices do not include freight charges and all shipments are FOB Wisconsin. Shipping rates are available prior to shipment.

Part No.	Description	Seat Height Adjustment	Footring	Color	Price
425-351	23" Base Chair with Mushroom Glides	16" - 21"	No	Blue	\$92.50
425-352	23" Base Chair with Mushroom Glides	16" - 21"	No	Gray	\$92.50
425-355	23" Base Chair with Carpet Casters	17" - 22"	No	Blue	\$92.50
425-356	23" Base Chair with Carpet Casters	17" - 22"	No	Gray	\$92.50
425-359	23" Base Chair with Hard Floor Casters	17" - 22"	No	Blue	\$99.15
425-360	23" Base Chair with Hard Floor Casters	17" - 22"	No	Gray	\$99.15
425-363	27" Base Chair with Mushroom Glides	23" - 33"	Yes	Blue	\$115.40
425-364	27" Base Chair with Mushroom Glides	23" - 33"	Yes	Gray	\$115.40
425-367	27" Base Chair with Carpet Casters	24" - 34"	Yes	Blue	\$115.40
425-368	27" Base Chair with Carpet Casters	24" - 34"	Yes	Gray	\$115.40
425-371	27" Base Chair with Hard Floor Casters	24" - 34"	Yes	Blue	\$121.85
425-372	27" Base Chair with Hard Floor Casters	24" - 34"	Yes	Gray	\$121.85

Value-Line® Polyurethane Chairs



Low-Cost, Stain and Puncture Resistant

- Soft-formed polyurethane
- 3 year warranty on all components
- Pneumatic seat height adjustment
- Back tilt, 360° swivel

Seat measures (18" W x 17" D) and back (17" W x 12" D). Chairs feature a 5-leg nylon reinforced base. Available with or without 18" footring and comes complete with glides or dual-wheel non-braking casters. Chairs tested and complies with ANSI/BIFMA X5.1 standards. Prices do not include freight charges and all shipments are FOB Wisconsin. Shipping rates are available prior to shipment.

Part No.	Description	Seat Height Adjustment	Footring	Price
425-271	23" Base Chair with Mushroom Glides	17" - 22"	No	\$110.95
425-272	23" Base Chair with Carpet Casters	18" - 23"	No	\$110.95
425-273	23" Base Chair with Hard Floor Casters	18" - 23"	No	\$116.85
425-274	27" Base Chair with Mushroom Glides	22" - 32"	Yes	\$130.90
425-275	27" Base Chair with Carpet Casters	23" - 33"	Yes	\$130.90
425-276	27" Base Chair with Hard Floor Casters	23" - 33"	Yes	\$137.85



Model 6501

Models 6500 and 6501 Industrial Chairs

Ergonomic and Comfortable

- 12 year guarantee
- Pneumatic seat height adjustment
- Pneumatic cylinder with lifetime warranty
- Back height and depth adjustments
- 18" adjustable chrome footring

Seat measures (20" W x 18"D with 3" thick foam), back (17" W x 16-3/4" H with 4-1/2" thick foam). Base features a 27" diameter with 5-legs constructed from reinforced plastic and come with polyurethane mushroom glides. Upholstery meets California Flammability Bulletin 117. Chairs are tested and meet ANSI/BIFMA Standards. Two types of optional dual-wheel casters are available. Hard floor casters (model 4550S/5) or carpet casters (model 4550/5). Casters add 1" to seat height. Prices do not include freight charges and shipments are FOB Wisconsin. Shipping rates are available prior to shipment.

Part No.	Model	Seat Height Adjustment	Seat/Back Control	Material	Color	Price
411-416	6500	23" - 33"	Manual Back Adjust	Fabric	Black	\$236.10
411-417	6500	23" - 33"	Manual Back Adjust	Fabric	Royal Blue	\$236.10
411-418	6500	23" - 33"	Manual Back Adjust	Fabric	Grey	\$236.10
411-419	6500	23" - 33"	Manual Back Adjust	Vinyl	Black	\$236.10
411-420	6501	23" - 33"	Tilt Control	Fabric	Black	\$285.00
411-421	6501	23" - 33"	Tilt Control	Fabric	Royal Blue	\$285.00
411-422	6501	23" - 33"	Tilt Control	Fabric	Grey	\$285.00
411-423	6501	23" - 33"	Tilt Control	Vinyl	Black	\$285.00

6000 Series, Ergonomic Chair Casters

Part No.	Model	Description	Material	Price
412-332	4550S/5	Hard Floor Casters 5/Set	Polyurethane	\$19.40
412-333	4550/5	Carpet Casters 5/Set	Polyurethane	\$7.90

*Caster prices shown if purchased "without" a chair. If purchased with a BEVCO chair discount will apply.

Models 8200 and 8600 Ergonomic Static-Safe Industrial Chairs

Choose Static-Dissipative Fabric or Vinyl Upholstery

- 12 year guarantee
- Pneumatic seat height adjustment
- Pneumatic cylinder has lifetime warranty
- Back height and depth adjustments
- RTG <1x10⁶ ohms

Seat measures (18" W x 17" D with 2-3/4" thick high density foam). Back rest (16" W x 10" H with 2" thick foam) features ESD-safe back shell. Upholstery meets California Flammability Bulletin 117. Chairs are tested and meet ANSI/BIFMA Standards and come with sturdy conductive polyurethane mushroom glides and a brass drag chain. Two types of optional dual-wheel conductive casters are available. Hard floor casters (model CARD5) or carpet casters (model CAPD5). Casters add 1" to seat

height. Prices do not include freight charges and shipments are FOB Wisconsin. Shipping rates are available prior to shipment.

Part No.	Model	Seat Height Adjustment	Material	Color	Price
417-348	8200	20" - 25"	Fabric	Charcoal	\$301.90
417-349	8200	20" - 25"	Fabric	Navy Blue	\$301.90
417-350	8200	20" - 25"	Fabric	Grey	\$301.90
417-351	8200	20" - 25"	Vinyl	Black	\$310.90
417-352	8600	25" - 30"	Fabric	Charcoal	\$304.20
417-353	8600	25" - 30"	Fabric	Navy Blue	\$304.20
417-354	8600	25" - 30"	Fabric	Grey	\$304.20
417-355	8600	25" - 30"	Vinyl	Black	\$313.05

Models 8200 and 8600 Casters

Part No.	Model	Description	Material	Price
425-416	CARD5	Optional ESD-Safe Hard Floor Casters 5/Set	Urethane	\$44.65
425-417	CAPD5	Optional ESD-Safe Carpet Casters 5/Set	Urethane	\$36.95

*Caster prices shown if purchased "without" a chair. If purchased with a BEVCO chair discount will apply.

Models 9351L-E and 9551L-E Static-Safe Ergonomic Industrial Chairs

Generous Sized Seat and Back with Independent Adjustments

- 12 year warranty
- ESD-Safe fabric or vinyl
- Pneumatic seat height adjustment
- Back height and tilt adjustment
- Pneumatic cylinder with lifetime warranty
- RTG (1.0 x 10⁵ ohms).

Pneumatically adjusted seat measures (20" W x 18" D with 3" thick high density foam). Large backrest (17.5" W x 19" H with 4" thick foam) features an ESD-safe back shell. Upholstery meets California Flammability Bulletin 117. Chairs are tested and meet ANSI/BIFMA standards and come with sturdy conductive polyurethane mushroom glides and a brass drag chain. Two types of optional dual-wheel conductive casters are available. Hard floor casters (model CARD5) or carpet casters (model CAPD5). Casters add 1" to seat height. Prices do not

include freight charges and shipments are FOB Wisconsin. Shipping rates are available prior to shipment.

Part No.	Model	Seat Height Adjustment	Material	Color	Price
418-260	9351L	21" - 28-1/2"	Fabric	Charcoal	\$422.70
418-261	9351L	21" - 28-1/2"	Fabric	Navy Blue	\$422.70
418-262	9351L	21" - 28-1/2"	Fabric	Grey	\$422.70
418-263	9351L	21" - 28-1/2"	Vinyl	Black	\$422.70
418-264	9551L	22" - 32"	Fabric	Charcoal	\$427.80
418-265	9551L	22" - 32"	Fabric	Navy Blue	\$427.80
418-266	9551L	22" - 32"	Fabric	Grey	\$427.80
418-267	9551L	22" - 32"	Vinyl	Black	\$427.80

Models 9351L-E and 9551L-E Casters

Part No.	Model	Description	Material	Price
417-356	CAPD5S	Optional ESD-Safe Carpet Casters 5/Set	Urethane	\$25.50
417-357	CARD5S	Optional ESD-Safe Hard Floor Casters 5/Set	Urethane	\$41.50

*Caster prices shown if purchased "without" a chair. If purchased with a BEVCO chair discount will apply.



Model 9551L



Model 2200 Series Industrial Chairs

Ergonomic

- 12 year guarantee
- Threaded adjustable seat

Seat measures (16-1/2" W x 15" D with 3-3/4" thick foam) adjustable with a thread lift. Back (16" W x 10" H with 2" thick foam) can be adjusted for height and depth. Base offers a 5-leg tubular steel construction with 19" diameter chrome footring. Fabric meets California Technical Bulletin 117 for flammability and tested to meet ANSI/BIFMA Standards. Comes standard

with plastic glides. Optional single wheel rubber hard floor casters (Model CAR/5) available. Casters add 2-1/2" to the seat height. Prices do not include freight charges and shipments are FOB Illinois. Shipping rates are available prior to shipment.

Part No.	Model	Seat Height Adjustment	Material	Color	Price
121-111	2205	19" - 24"	Fabric	Black	\$150.15
121-112	2205	19" - 24"	Fabric	Blue	\$150.15
121-123	2605	24" - 29"	Fabric	Black	\$154.60
121-124	2605	24" - 29"	Fabric	Blue	\$154.60
121-148	CAR/5-21	Single Wheel Hard Floor Rubber Casters (5/Set)	—	—	\$21.60



Model 2205

7000 & 7000 Silver Series Ergonomic Chairs

Resists - Stains, Punctures, Grease, Water and Chemicals

- 12 year guarantee
- Pneumatic cylinder offers a lifetime warranty
- Seat back height and depth adjustments
- 18" adjustable chrome footring
- Silver series chairs certified for class 10 cleanrooms
- ESD-Safe silver series models 7550E & 7551E

Features a contoured polyurethane seat and back with ventilated ribs for user comfort and support. Seat measures (18-1/2" W x 17" D x 1-1/2" thick). Back support measures (16-1/2" W x 12-1/2" D x 1" thick). All models offer a pneumatic seat height adjustment (22" - 32"). Chairs are tested and meet ANSI/BIFMA standards and come with sturdy polyurethane mushroom glides. Optional dual-wheel casters (hard floor or carpet casters) are available for all models, also ESD-Safe casters for the silver series models 7550E & 7551E. Prices do not include freight charges, and shipments are FOB Wisconsin. Shipping rates are available prior to shipment.

Part No.	Model	Description	Seat/Back Control	Color	Price
411-406	7500	7000 Series Chair	Manual	Black	\$213.40
411-407	7501	7000 Series Chair	Tilt Control	Black	\$266.80
423-260	7500	7000 Series Chair	Manual	Blue	\$209.10
423-261	7501	7000 Series Chair	Tilt Control	Blue	\$266.80
423-262	7500	7000 Series Chair	Manual	Yellow	\$209.10
423-263	7501	7000 Series Chair	Tilt Control	Yellow	\$266.80
423-264	7500	7000 Series Chair	Manual	Burgundy	\$209.10
423-265	7501	7000 Series Chair	Tilt Control	Burgundy	\$266.80
423-266	7500	7000 Series Chair	Manual	Green	\$209.10
423-267	7501	7000 Series Chair	Tilt Control	Green	\$266.80
423-268	7500	7000 Series Chair	Manual	Gray	\$209.10
423-269	7501	7000 Series Chair	Tilt Control	Gray	\$266.80
423-270	7550E	7000 Silver Series Chair	Manual	ESD-Safe Black	\$344.50
423-271	7551E	7000 Silver Series Chair	Tilt Control	ESD-Safe Black	\$399.40
423-272	7550	7000 Silver Series Chair	Manual	Black	\$274.50
423-273	7551	7000 Silver Series Chair	Tilt Control	Black	\$308.30
423-274	7550	7000 Silver Series Chair	Manual	Blue	\$274.50
423-275	7551	7000 Silver Series Chair	Tilt Control	Blue	\$308.30
423-276	7550	7000 Silver Series Chair	Manual	Yellow	\$274.50
423-277	7551	7000 Silver Series Chair	Tilt Control	Yellow	\$308.30
423-278	7550	7000 Silver Series Chair	Manual	Burgundy	\$274.50
423-279	7551	7000 Silver Series Chair	Tilt Control	Burgundy	\$308.30
423-280	7550	7000 Silver Series Chair	Manual	Green	\$274.50
423-281	7551	7000 Silver Series Chair	Tilt Control	Green	\$308.30
423-282	7550	7000 Silver Series Chair	Manual	Gray	\$274.50
423-283	7551	7000 Silver Series Chair	Tilt Control	Gray	\$308.30

Available in 6 Colors



Silver Series
Model 7551E

7000 Series
Model 7501

Model 7500 and 7501 Optional Casters

Part No.	Model	Description	Material	Price
412-329	3850S/5	Hard Floor Casters 5/set	Polyurethane	\$19.40
412-331	3850/5	Carpet Casters 5/set	Polyurethane	\$7.90

*Caster prices shown if purchased "without" a chair. If purchased with a BEVCO chair discount will apply.

7000 Silver Series Optional Casters

Part No.	Model	Description	Price
412-329	3850S/5	Hard Floor Casters 5/set	\$19.40
412-331	3850/5	Carpet Casters 5/set	\$7.90
417-356	CAPD5S	Optional ESD-Safe Carpet Casters 5/Set	\$25.50
417-357	CARD5S	Optional ESD-Safe Hard Floor Casters 5/Set	\$41.50

*Caster prices shown if purchased "without" a chair. If purchased with a BEVCO chair discount will apply.



Shipped within **48** hrs.

1PK Series Ergonomic Static Safe Chairs

- 13 year warranty
- Pneumatic seat height adjustment
- Pneumatic cylinder has lifetime guarantee
- Back height and depth adjustments
- RTG <5 x 10⁷ ohms
- Meets ANSI/BIFMA standards

Seat measures (18.5" W x 16.5" D with 3" thick foam), back (14.5" W x 9.5" H with 1.5" thick foam). 5-leg tubular chromed base is 22" in diameter and features a 18" diameter footring. Upholstery is static-dissipative vinyl and meets the California Technical Bulletin 117 for flammability. Standard with chromed conductive steel glides. Optional single wheel conductive rubber casters model RK available. Casters add 2" to the seat height range. Prices do not include freight charges and shipments are FOB Ohio. Shipping rates are available prior to shipment.

Part No.	Model	Seat Height Adjustment	Material	Color	Price
411-471	1P41K	17"-22"	Vinyl	Blue	\$377.85
411-472	1P61K	20"-25"	Vinyl	Blue	\$389.95
411-473	1P62K	24"-29"	Vinyl	Blue	\$386.65
411-474	RKSingle Wheel Hard Floor Conductive Rubber Casters (5/Set)	—	—	—	\$27.00



Shipped within **48** hrs.

1P Series Ergonomic Chairs

- 13 year warranty
- Pneumatic seat height adjustment
- Pneumatic cylinder has lifetime guarantee
- Back height and depth adjustments
- Meet ANSI/BIFMA standards
- Available in black, grey and blue fabric

Seat measures (18.5" W x 16.5" D with 3" thick foam), back (14.5" W x 9.5" H with 1.5" thick foam). Base features a 16 gauge 5-leg tubular steel frame and measures 22" in diameter with 18" footring. Upholstery meets California Technical Bulletin 117 for flammability. Comes with nickel plated steel glides. Optional single wheel rubber casters model R for hard floor use available. Casters add 2" to the seat height range. Prices do not include freight charges and shipments are FOB Ohio. Shipping rates are available prior to shipment.

Part No.	Model	Seat Height Adjustment	Material	Color	Price
411-478	1P41	17"-22"	Fabric	Black	\$249.50
411-479	1P41	17"-22"	Fabric	Grey	\$257.80
411-480	1P41	17"-22"	Fabric	Blue	\$249.50
411-481	1P61	20"-25"	Fabric	Black	\$253.65
411-482	1P61	20"-25"	Fabric	Grey	\$262.15
411-483	1P61	20"-25"	Fabric	Blue	\$262.15
411-484	1P62	24"-29"	Fabric	Black	\$266.50
411-485	1P62	24"-29"	Fabric	Grey	\$265.45
411-486	1P62	24"-29"	Fabric	Blue	\$257.85
121-182	R	Single Wheel Hard Floor Rubber Casters (5/Set)	Rubber	Black	\$26.35



Shipped within **48** hrs.

4QK Series Ergonomic Static Safe Chairs

Shipped Within 48 Hours

- 13 year warranty
- Pneumatic seat height adjustment
- Pneumatic cylinder has lifetime guarantee
- Back height and depth adjustments
- RTG 3 x 10⁶ ohms
- Meet ANSI/BIFMA Standards

Seat measures (18.5" W x 17" D with 3" thick foam), back support (14.5" W x 9.5" H with 1.5" thick foam). Static-dissipative upholstery resistance to ground of 3 x 10⁶ ohms and meets the California Technical Bulletin 117 for flammability. Comes standard with chromed conductive steel glides, 22" footring and drag chain. Optional dual wheel conductive urethane casters model STR available. Casters add 2" to the seat height range. Prices do not include freight charges and shipments are FOB Ohio. Shipping rates are available prior to shipment.

Part No.	Model	Seat Height Adjustment	Material	Color	Price
411-475	4Q43K	20"-25"	Fabric	Blue	\$496.80
411-476	4Q64K	22"-27"	Fabric	Blue	\$499.00
411-477	STRDual Wheel Hard Floor Conductive Urethane Casters (5/Set)	—	—	—	\$50.00



For an expanded selection of Chairs visit contacteast.com and jensentools.com



Shipped within **15** Days

Ergonomic Chairs

Standard or ESD-Safe Fabric

- Full 5-year Warranty
- Pneumatic seat height adjustment

Seat measures (20"W x 18" D with 3" thick foam) and backrest (16"W x 12"H with 2" thick foam). Chairs feature a 5-leg base (25" diameter) and an adjustable (20" diameter) footring and comes complete with dual wheel braking casters. Upholstery which meets California Technical Bulletin TB 117. Chair is tested and complies with ANSI/BIFMA Standards. Prices do not include freight charges and shipments are FOB California.

Standard Chairs

Fabric upholstery features a Scotchguard™ treatment and the base is constructed of reinforced nylon.

Part No.	Model	Seat Height Adjustment	Footring	Color	Price
121-168	10	21" - 31"	Yes	Blue	\$249.95
121-171	10	21" - 31"	Yes	Grey	\$226.45



Static Safe Chairs

Upholstery constructed from static dissipative polyolefin fiber with a surface resistivity of 10⁶ ohms/sq. and RTG 1MΩ (decay time from 5000 to 100V in 0.01 seconds). Come with a polished aluminum base (26" diameter) and conductive casters.

Part No.	Model	Seat Height Adjustment	Footring	Color	Price
407-525	10	21" - 31"	Yes	Blue	\$329.95
406-458	10	21" - 31"	Yes	Grey	\$376.20

harts

M2000E Series Static-Safe Chair

Ergonomic, Static-Safe Performance with Adjustable Support

- 5-year warranty
- Pneumatic seat height adjustment
- Back height and angle adjustment
- Seat tilt adjustment
- RTG <1x10⁶ ohms

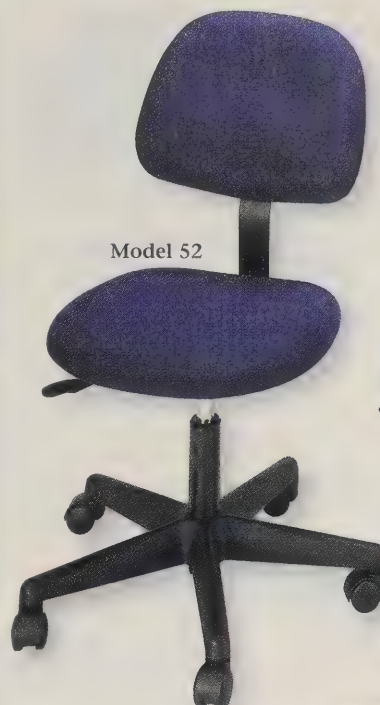
Seat measures (19" W x 17-1/2" D with 2-1/2" thick), back (17" W x 16.5" H with 2-1/2" thick foam). Features a 26" diameter 5-leg brushed aluminum base with 20" chrome adjustable footring. Meets California Technical bulletin 117 for flammability and tested and meet ANSI/BIFMA standards. Comes with 2" urethane dual wheel hard floor braking casters for safety. All Chairs are shipped from Buffalo N.Y. Shipping rates are available prior to shipment.

Part No.	Model	Seat Height Adjustment	Color	Price
410-911	M2000E	19.5" - 27"	Blue	\$545.70

Your chair will be shipped within 10 days. This is for orders of up to 10 chairs. For larger orders, please call for estimated shipping dates.



Model 10
Static Safe



Model 52



Model 50

Low-Cost Ergonomic Chairs

You Choose Standard or ESD-Safe Fabric

- 5-year unconditional warranty for single shift operation (includes fabric, cushions and mechanical components)
- Pneumatic seat height adjustment

Seat measures (18"W x 17-1/2"D with 2-1/2" thick foam), back (16"W x 12"H). Chairs feature a 5-leg nylon reinforced base and come complete with dual-wheel non-braking casters. Chair tested and complies with ANSI/BIFMA Standards. Meets California Technical Bulletin 117. Prices do not include freight charges and shipments are FOB California. Shipping rates are available prior to shipment.

Standard Chairs

Fabric upholstery features a Scotchguard™ treatment and the base is constructed of reinforced nylon. Base measures 23" diameter (Model 52) and 25" diameter (Model 50 with 18" chrome footring).

Part No.	Model	Seat Height Adjustment	Footring	Price
407-361	52	17" - 22"	No	\$115.35
407-362	50	19" - 27"	Yes	\$153.80



Static Safe Chairs

Static safe polyolefin fabric offers a surface resistivity of 10⁶ ohms/sq. and a RTG 1MΩ (decay time from 5000V to 100V is 0.01 seconds). Part No.407-359 features a 23"diameter reinforced nylon base. Part No. 407-360 offers a 25" reinforced nylon base with adjustable 18" chrome footring. Both backrest bar are chrome plated for conductivity and the chair comes complete with drag chain.

Part No.	Model	Seat Height Adjustment	Footring	Price
407-359	52DF	17" - 22"	No	\$166.55
407-360	50DF	19" - 27"	Yes	\$213.60

Shipped within **48** hrs.

Your chair will be shipped within 48 hours. This is for orders of up to 10 chairs. For larger orders, please call for estimated shipping dates.

Shipped within **10** Days



FREE
freight



Models DMSD4-1
and DMSD4-1Q

Models DMSM4-1
and DMSM4-1Q

Shipped within **5** Days

FREE
freight



Models FSMM4-1
and FSMM4-1Q

Model FSMD4-1

Shipped within **5** Days

"Dimension" Series Ergonomic Chairs

Designed for Smaller Users or to Fit in Tight Work Spaces

- 10-year limited warranty
- Pneumatic seat height adjustment
- Pneumatic cylinder has lifetime warranty
- Back height and angle adjustment
- Seat tilt adjustment

Seat measures (17-3/4" W x 16-3/4" D with 3" thick foam) pneumatically adjusted for height and the backrest (16-1/4" W x 11" H with 2-1/2" thick foam) can be manually adjusted for height and angle. Foam seat and backrest is flame retardant and meets California Technical Bulletin 117. Chairs feature a 5-leg base and come complete with non-braking dual-wheel casters. Chair is tested and complies with ANSI/BIFMA Standards. Available in standard or in static-dissipative upholstery. All chairs are shipped from Kansas City. **Free Freight** to the **Continental U.S.A.**

Standard Chairs

Chairs come in heavy-duty nylon fabric, Scotchguard™ treated (soil retardant). The base is made of reinforced nylon composite material.

Part No.	Model	Seat Height Adjustment	Footring	Color	Price
403-598	DMSD4-1	16.5" - 21.5"	No	Black	\$368.60
403-599	DMSD4-1	16.5" - 21.5"	No	Navy Blue	\$368.00
403-600	DMSM4-1	19.5" - 27"	Yes	Black	\$418.90
403-601	DMSM4-1	19.5" - 27"	Yes	Navy Blue	\$418.90

Shipped Within 5 Days



Static Safe Chairs

The entire frame from the backrest to the base is electrically conductive and the upholstery is made of static-dissipative nylon fabric. Chairs have a resistance of one mega-ohm (10⁶) or less.

Part No.	Model	Seat Height Adjustment	Footring	Color	Price
406-293	DMSD4-1Q	16.5" - 21"	No	Charcoal	\$520.00
406-294	DMSD4-1Q	16.5" - 21"	No	Dark Blue	\$520.00
406-295	DMSM4-1Q	19.5" - 27"	Yes	Charcoal	\$559.00
406-296	DMSM4-1Q	19.5" - 27"	Yes	Dark Blue	\$559.00

Shipped Within 5 Days

Fusion II™ Series Multi-Shift Industrial Ergonomic Chairs

Fiberglass-Reinforced Nylon Base

- 7-year Multi-Shift limited warranty
- Pneumatic seat height adjustment
- Seat angle and back angle adjustment
- Sculptured seat cushion with waterfall front
- Sculptured backrest
- Finger-controlled lumbar support height adjustment
- Metal construction

Seat measures (20" W x 19" D with 2-1/2" thick foam) is pneumatically adjusted for height and the backrest (16"W x 15"H with 2-1/2" thick foam) can be adjusted for height and angle. Back height adjustment provides a 3" range for lumbar support. Foam in the seat and backrest is flame retardant and meets California Technical Bulletin 117. Chairs feature a 5-leg base and come complete with non-braking dual wheel casters. Available in standard or in static-dissipative upholstery. Chair is tested and complies with ANSI/BIFMA Standards. All chairs are shipped from Kansas City. **Free Freight** to the **Continental U.S.A.**

Standard Chairs

Chairs come in heavy-duty nylon fabric that is Scotchguard™ treated (soil-retardant). Base is made of reinforced nylon composite material. Model AD42D comes with an adjustable footring.

Part No.	Model	Seat Height Adjustment	Footring	Color	Price
412-308	FSMD4-1	16" - 21"	No	Navy	\$447.00
412-309	FSMD4-1	16" - 21"	No	Burgundy	\$447.00
412-310	FSMD4-1	16" - 21"	No	Black	\$447.00
412-311	FSMM4-1	19.5" - 26.5"	Yes	Navy	\$483.50
412-312	FSMM4-1	19.5" - 26.5"	Yes	Burgundy	\$483.50
412-313	FSMM4-1	19.5" - 26.5"	Yes	Black	\$483.50



Static Safe Chairs

The entire chair frame from the backrest to the base is electrically conductive and the upholstery is made of static-dissipative nylon fabric. Chairs have a resistance of one mega-ohm (10⁶) or less.

Part No.	Model	Seat Height Adjustment	Footring	Color	Price
412-327	FSMM4-1Q	19.5" - 26.5"	Yes	Black	\$640.00
412-328	FSMM4-1Q	19.5" - 26.5"	Yes	Blue	\$640.00



E C K A D A M S®

Ergonomic Chairs

Adjustable Comfort

- Lifetime-limited warranty
- Pneumatic seat height adjustment
- Back height and angle adjustment

Model 8011: Designed for desk use with a seat height adjustment from 15.2"-20.5". Seat measures (19" W x 18" D with 3" thick foam) and the backrest (16" W x 13" H with 2-1/2" thick foam). Features a 5-leg composite nylon base (23" diameter) with non braking casters.

Model 8078: Designed for bench use with a seat height adjustment from 19.2"-27.0". Seat measures (19" W x 18" D with 2-1/2" thick foam) features a larger backrest (17-1/4" W x 16-1/4" H with 2-1/2" thick foam). Features a 5-leg composite nylon base (24-1/2" diameter) with non braking casters and adjustable height chrome footring.

Chairs are tested and meet ANSI/BIFMA Standards and meet California Technical Bulletin 117. Prices do not include freight charges, and shipments are FOB Arkansas. Shipping rates are available prior to shipment.

Highlighted Chairs

Shipped within **5** Days

Part No.	Model	Seat Height Adjustment	Color	Price
407-503	8011	15.2" - 20.5"	Navy Blue	\$215.00
407-504	8011	15.2" - 20.5"	Medium Blue	\$213.95
407-505	8011	15.2" - 20.5"	Grey	\$209.95
407-506	8078	19.2" - 27.0"	Navy Blue	\$290.00
407-507	8078	19.2" - 27.0"	Medium Blue	\$293.00
407-508	8078	19.2" - 27.0"	Grey	\$302.00



E C K A D A M S®

Ergonomic Static-Safe Chair

Fully Adjustable for Comfort and Support

- Lifetime-limited warranty
- Pneumatic seat height adjustment
- Back height and angle adjustment
- Conductive fabric RTG 1MΩ (106) or less

Seat measures (19"W x 17-1/4"D with 2-1/2" thick foam) backrest (15-1/2"W x 13-1/4"H with 3-1/2" thick foam). Features a 5-leg polished aluminum base (24-1/2" diameter) with adjustable (18" diameter) chromed footring. Comes complete with conductive braking casters. Chair test and meets ANSI/BIFMA standards and California Technical Bulletin 117. Prices do not include freight charges and shipments are FOB Arkansas. Shipping rates are available prior to shipment.

Part No.	Model	Seat Height Adjustment	Color	Price
407-400	8778	19.2" - 27.2"	Navy Blue	\$465.00
407-401	8778	19.2" - 27.2"	Medium Blue	\$479.00
407-402	8778	19.2" - 27.2"	Grey	\$449.00



Model 8778

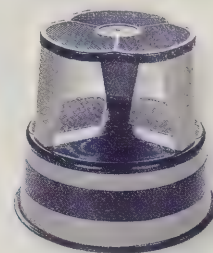
CHAIRS

Shipped within **5** Days



built for the long run

FREE freight



Kik-Step® Rolling Step Stool

Quickly Move and Reach High Places

- Solid steel construction
- 14" high x 16" diameter base
- Non-skid surface
- Supports up to 500 lbs.

Kick it where you want then step on it and the retractable casters disappear beneath. Providing you a non-slip easy reach. Features a wrap-around bumper to protect furniture and walls. Available in grey (shown) and black. For additional colors ask your sales person. **Free-Freight** on orders shipped to the Continental U.S.A.

Part No.	Model	Description	Color	Price
403-619	1001	Rolling Step Stool	Grey	\$71.00
403-618	1001	Rolling Step Stool	Black	\$71.00



built for the long run

New



Scooter Stool™

Work & Roll with Handy Tool/Utility Tray Underneath

- 14-1/2" height, 13" diameter seat
- 300 lb. download rating
- Hard floor casters
- All-metal construction
- Available in red or grey

Part No.	Model	Description	Color	Price
423-937	1014-43	Scooter Stool™	Red	\$88.00
423-938	1014-82	Scooter Stool™	Gray	\$88.00

New

BEVCO Backless Stools

Part No. 425-280

Built for Durability and Comfort

- 15" diameter polyurethane seat
- 360° swivel
- Seat height adjustment
- Pneumatic cylinder

Ideal for a wide range of applications. Part number 425-280 features 5-star reinforced plastic base with carpet casters. Part number 411-424 features tubular steel base with 16" diameter plastic storage tray (tools not included), 3" casters (two with locking brakes). Call our sales department for additional seat height adjustments, ESD-Safe and clean room models.

Part No.	Model	Description	Seat Height Adjustment	Price
425-280	3000-P	Standard Stool	16" - 21"	\$115.65
411-424	3057	Maintenance/Repair Stool	15-1/2" - 20-1/2"	\$170.25

Part No. 411-424





LUXO

Wave+Plus Illuminated Magnifiers

Wide-Field Distortion-Free Magnification

WAVE+ magnifier heads are molded from ABS plastic and have polycarbonate lamp (bulb) covers. Standard K-arms, made of 1/2" square steel tubes with calibrated springs housed in the arms are used on all models. All models feature 3-conductor cord sets and are UL/UL-C listed. See product descriptions for arm lengths and mounting bracket specifications.

- Magnification: 3.5 diopter lens (1.85X)
- Lighting: two 13-watt quad compact fluorescent tubes
- Lens size: (6.75x 4.5) determined by ergonomists to optimize viewing area without being intrusive to the work environment
- Improved ergonomics: lights are fully enclosed on the sides/front to focus illumination on the subject
- Anti-Reflective (A/R) lens dissipates glare from overhead lighting so it isn't necessary to bend over the lens to block out light reflections
- Dual switches for independent control of each light; with one light on, shadowing is possible; with both on, full illumination results
- Top-mounted accessory lenses, including a 10-diopter swing away lens



Wave+Plus Standard Lens Illuminated Magnifiers

Part No.	Model	Type of Base	Reach	Color	Price
403-219	17845	Clamp-on	45"	Gray	\$382.00
403-220	17845B	Clamp-on	45"	Black	\$382.00
403-221	17846	Clamp-on	30"	Gray	\$382.00
403-222	17846B	Clamp-on	30"	Black	\$382.00
403-223	17847	Table Base	30"	Gray	\$451.00
403-224	17847B	Table Base	30"	Black	\$451.00

Wave+Plus UV Illuminated Magnifiers

Part No.	Model	Type of Base	Reach	Color	Price
425-138	17915BK	Clamp-on	45"	Black	\$582.00
425-139	17916BK	Clamp-on	30"	Black	\$582.00
425-142	17917BK	Table Base	30"	Black	\$662.00

Wave+Plus Illuminated Anti-Reflective Lens Magnifiers

Part No.	Model	Type of Base	Reach	Color	Price
403-225	17841	Clamp-on	45"	Gray	\$554.00
403-226	17841B	Clamp-on	45"	Black	\$554.00
403-227	17842	Clamp-on	30"	Gray	\$554.00
403-228	17842B	Clamp-on	30"	Black	\$554.00
403-229	17843	Table Base	30"	Gray	\$622.00
403-230	17843B	Table Base	30"	Black	\$622.00

Wave+Plus ESD Safe Illuminated Magnifiers

Part No.	Model	Type of Base	Reach	Color	Price
416-636	17900BK	Clamp-on	45"	Black	\$588.00
416-637	17902BK	Clamp-on	30"	Black	\$588.00
416-638	17904BK	Table Base	30"	Black	\$652.00

Accessory Lenses for Wave+Plus

4- and 8-diopter accessory lenses have their housings molded in gray or black to match the color of the magnifier. They mount on top of the magnifier for easy installation. In addition, a 10-diopter swing-away lens is also available. It attaches directly to the light head and easily swings over the primary lens to provide added magnification. Color is metallic only.

Part No.	Model	Magnification	Color	Price
403-231	50074	4-diopter	Gray	\$55.00
403-234	50074B	4-diopter	Black	\$55.00
403-232	50078	8-diopter	Gray	\$60.00
403-235	50078B	8-diopter	Black	\$60.00
403-233	50206	10-diopter	Metallic	\$120.00



LUXO

ILLUMINATED MAGNIFIERS



Illuminated Magnifiers

- 5" magnifying lens in 3-diopter (1.75x) or 5-diopter (2.25x)
- All metal housing
- Flexible 45" external spring arm
- 22 watt circline fluorescent lamp
- Convenience outlet on base of arm

Medium-duty illuminated magnifier features a 5" diameter, 3- (3/4X) or 5-diopter (1-1/4X) magnifying lens, all metal housing and a 22-watt circline fluorescent lamp for 360° of shadow-free illumination. A flexible, 45" arm has external springs that are individually calibrated for proper balance and easy positioning. In addition, a convenient 3-wire single outlet receptacle is provided in the base of the arm. Operates on 115VAC and comes complete with horizontal mounting clamp, 22-watt bulb, on/off switch and 3-wire cord. Available in white or matte black.

Part No.	Model	Lens	Color	Price
409-379	L712WT	3-Diopter	White	\$151.00
409-380	L712MB	3-Diopter	Matte Black	\$151.00
409-381	L7125WT	5-Diopter	White	\$158.25
409-382	L7125MB	5-Diopter	Matte Black	\$173.00

UV Inspection Illuminated Hand Held Magnifier

Defects Glow Brilliantly, Even in Lit Up Areas

- Combination of 2 U/V black lights and 2 fluorescent lights
- 2"x4" distortion-free lens
- 5-diopter (2.25x) magnification
- Ultra-durable plastic frame and handle

Speeds and simplifies inspection of welds, solder joints, conformal coatings, flux residues, and even detects hairline cracks and imperfections in plated-thru holes in PC boards. Comes with 3-wire cord. 115VAC.

Part No.	Model	Description	Price
118-330	16401	Inspection Light	\$271.00



KFM Illuminated Heavy Duty Magnifiers

Luxo's Most Popular Distortion-Free Illuminated Magnifier - KFM Series

- Heavy duty cast aluminum housing
- Industrial grade acrylic splash guard/diffuser
- Tempered steel spring arms
- 5" magnifying lens in 3-diopter(1.75x) or 5-diopter(2.25x)
- Light gray finish
- 5 year warranty

UL listed, operates on 115VAC, and comes complete with on/off switch, 3-wire cord, and 22-watt circline fluorescent bulb for 360° of shadow free illumination. Seven models to choose from with 3, 5 or 10 diopter magnification, 30" or 45" reach, and either a horizontal mounting clamp or a weighted base. Optional 10-diopter, clip-on, swing-away lens converts illuminated magnifier into a powerful inspection instrument (4.25X for 3-diopter, 4.75X for 5-diopter).



Horizontal mounting clamp



Weighted Base

KFM Illuminated Heavy Duty Magnifiers

Part No.	Model	Lens	Type of Base	Reach	Price
118-444	17213LG	3-Diopter	Mounting Clamp	30"	\$239.00
28-200	17113LG	3-Diopter	Mounting Clamp	45"	\$231.50
118-446	17253LG	3-Diopter	Weighted Base	30"	\$318.00
118-447	17255LG	5-Diopter	Weighted Base	30"	\$331.00
118-445	17215LG	5-Diopter	Mounting Clamp	30"	\$252.00
118-443	17115LG	5-Diopter	Mounting Clamp	45"	\$244.00
160-421	17110	10-Diopter	Mounting Clamp	45"	\$276.10

Accessories

Part No.	Model	Description	Price
403-233	50206	10-Diopter, Clip-On Lens	\$117.60
118-467	T9	Replacement Circline Bulb	\$7.10

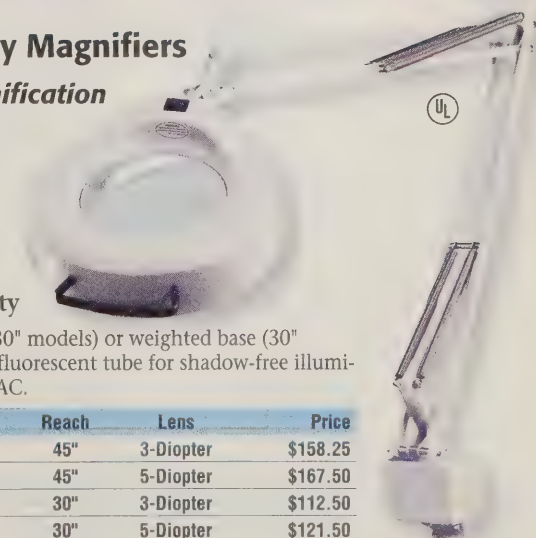
IFM Illuminated Light Duty Magnifiers

Provides Distortion-Free Magnification at an Affordable Price

- Sturdy, all steel construction with light gray finish
- 5" magnifying lens in 3-diopter (1.75x) or 5-diopter (2.25x)
- 45" or 30" arm length
- UL/C-UL listed
- 5 year warranty

Choice of mounting clamp (for 45" or 30" models) or weighted base (30" model only). All models include a 22-watt fluorescent tube for shadow-free illumination, a 3-wire cord and operate on 155VAC.

Part No.	Model	Type of Base	Reach	Lens	Price
420-693	16345LG	Mounting Clamp	45"	3-Diopter	\$158.25
420-694	16346LG	Mounting Clamp	45"	5-Diopter	\$167.50
423-359	16350LG	Mounting Clamp	30"	3-Diopter	\$112.50
423-360	16352LG	Mounting Clamp	30"	5-Diopter	\$121.50
423-361	16351LG	Weighted Base	30"	3-Diopter	\$157.50
423-362	16353LG	Weighted Base	30"	5-Diopter	\$166.50



ILLUMINATED MAGNIFIERS



O.C. White Co.

Prolite® Big Eye I Extra Large 7.5" x 6.2" Dual-Mag™

**FREE Swing
Away 10 Diopter
Lens on All Models**

- Extra large 7.5" x 6.2" viewing area
- Optical quality lenses
- White or carbon black for ESD reduction

Prolite® Illuminated Magnifiers have a large viewing area of 7.5" x 6.2". These magnifiers come in your choice of white or carbon black for ESD reduction. 13 Watts of dual illumination with independent light switches for controlled illumination. Crown white optical quality lenses provide quality, distortion free magnification. Free swing away 10 diopter lens included.

Part No.	Model	Color	Lens	Base	Price
421-539	DMXLC-B	Carbon Black	3 Diopter and 13 Diopter	Clamp On	\$199.00
423-315	DMXLC-W	White	3 Diopter and 13 Diopter	Clamp On	\$199.00
423-320	13359		Replacement 13 Watt Bulb		\$9.14



O.C. White Co. Rectangular Magnifier with Variable Illumination

**Dimmable
Illumination
From 100% Down
to 25% at the Stroke
of a Finger**

- "E-Z" swivel neck design allows magnifier head to move rotationally to virtually any position
- MIL-STD-2000 approved lens
- ESD-safe

Rectangular-shaped, 3-diopter (1.75X) lens measures 7.5" x 6.2" and provides distortion-free viewing with both eyes to reduce fatigue and strain. A specially designed "glare-free" bulb provides three-sided illumination eliminating shadows and fluorescent flickering. Built-in slide switch allows you to adjust the illumination so that highly reflective surfaces can easily be seen. A spring-balanced 43" steel arm with the E-Z swivel neck design provides optimum comfort, flexibility, and accessibility. Operates on 115V, has 3-wire cord and on/off switch. White finish. Choice of clamp-down or screw-down base.

Part No.	Model	Type of Base	Price
405-493	72400EZ-GFW	Clamp-Down	\$387.00
405-492	72300EZ-GFW	Screw-Down	\$387.00
400-778	Replacement Bulb		\$49.95



O.C. White Co.

5" Illuminated Magnifier

**O.C. White's Standard and Most Popular 5",
3-diopter (1.75x) Magnifier**

The crystal clear, crown white lens and 22-watt cool-white bulb provides superior light transmission and reduces long-term eye fatigue associated with lower quality lenses. Two models to choose from: mounting clamp model with a 45" heavy-duty arm or weighted base model with a 25" heavy-duty arm. The arm is removable from base and may also be used with a mounting clamp. All models come complete with 3-wire cord and gray finish.

Part No.	Model	Type of Bulb	Reach	Type of Base	Price
118-403	53139	Cool-White	45"	Mounting Clamp	\$179.00
118-381	51739	Cool-White	25"	Weighted Base	\$222.00



Weighted
Base Model



O.C. White Co.

"Big Eye" Large Diameter Glare-Free Illuminated Magnifiers

**Exclusive" Glare Free" Phosphor Bulb
Reduces Glare by 60%**

- 7.5", 3-diopter (1.75x) or 4 diopter (2x) glass lens
- 34-watt glare-free circline fluorescent lamp
- Spring balanced 37" steel arm (guaranteed for 10 years)
- 2X models meet MIL-SPEC-2000 for assembly

The Big Eye magnifier achieves virtually distortion-free magnification and provides a viewing area of 50 inches, 130% more working area than any other standard magnifier. A depth of field of 13" allows plenty of room for assembly, soldering, and inspection operations-especially useful for printed circuit applications. 115V, UL listed, has 3-wire cord and on/off switch. Gray finish. Choice of clamp-down or screw-down base.

Part No.	Model	Lens	Type of Base	Price
118-389	52300GF	1- 3/4X (3-Diopter)	Screw-Down	\$348.00
118-397	52400GF	1- 3/4X (3-Diopter)	Clamp-Down	\$348.00
118-386	52300-4GF	2X (4-Diopter)	Screw-Down	\$391.00
118-394	52400-4GF	2X (4-Diopter)	Clamp-Down	\$391.00



Model 7426

Halogen Magnifier

Crisp, Bright Light Makes Inspection Easier

- 5" 3-diopter (1.75x) magnifying lens
- Spring balanced arm for easy positioning
- 9 ft., 3-conductor cord
- Black finish

A 100 watt quartz-halogen bulb delivers 650 footcandles of 3000°K crisp, bright white light. Two models to choose from. **Model 7426** comes with a horizontal mounting clamp and a 45" arm. **Model 7428** comes with a weighted base and a 30" arm. Optional swing away 10-diopter (2-1/2X) glass lenses are available for added magnification.

Part No.	Model	Type of Base	Reach	Price
118-421	7426	Mounting Clamp	45"	\$188.75
406-976	7428	Weighted Base	30"	\$208.65

Accessories

Part No.	Model	Description	Price
118-460	MAG10	10-Diopter Swing Away Lens	\$15.95
118-325	1435	Replacement Bulb	\$19.80

DAZOR

Highlighting Illuminated Magnifier

Shadow Highlighting Feature Makes Details of Uneven Surfaces "Pop Out" to the Viewer

- 5" crystal clear crown optical lens
- 120VAC, UL listed
- 5 year warranty

A 13-watt fluorescent bulb located behind the magnifying lens casts light at an angle ideal for tasks that require precise discrimination of details found in the variations of an object's surface. Designed to eliminate obstruction between the inspector and the lens, the lamp features an adjustable arm with no exposed springs that can be set in any position with finger touch control. Available with a three-diopter lens (magnification +75% at focal length of 13") or with a five-diopter lens (magnification +125% at a focal length of 8"), and with a weighted base or a universal mounting clamp. All models feature all steel construction, on-off switch, and come complete with fluorescent bulb. Baked enamel finish is Dove Gray.

Part No.	Lens	Base	Reach	Price
118-431	3-Diopter	Mounting Clamp	40"	\$202.78
118-429	3-Diopter	Weighted Base	26"	\$225.43
118-430	5-Diopter	Mounting Clamp	40"	\$218.24
118-428	5-Diopter	Weighted Base	26"	\$251.19
118-323	Replacement Bulb	-	-	\$6.95



Waldmann Omnivue Series Illuminated Magnifiers

Provide Multi-Level Lighting & Rotating Lens for Optimum Positioning

- Two arm lengths available (35" or 43" reach)

6.38" x 4.13", 3-diopter (3/4X) optical quality glass lens is combined with three 9-watt compact fluorescent lamps that provide two light levels: 18-watts of side-by-side lighting for traditional inspection applications, or 27-watts of light from the top and both sides of the magnifier for applications that require additional illumination. The magnifying lens tilts independently of the light source and allows you to see the inspection area easier—without bending or slouching. Plus, glare from overhead lighting is reduced. The adjustable arm features a ball joint design that allows you to position the ABS lamp head exactly where it's needed. Two models to choose from. **Model Omnivue 319 (407-704)** has all of the above features and a 35" reach. **Model OmnivueMax (411-954)** has all of the above features and a 43" reach. Both models operate on 120VAC and come complete with 3-wire, 10 ft. cord, horizontal mounting clamp, and a 10-year warranty.

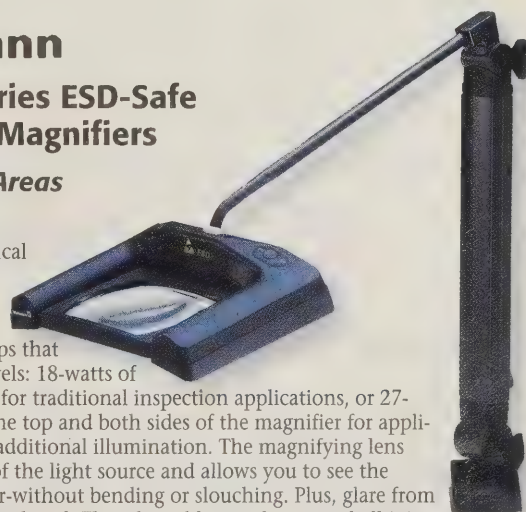
Part No.	Model	Description	Price
407-704	Omnivue 319	Illuminated Magnifier with 35" Reach	\$374.35
411-954	OmnivueMax	Illuminated Magnifier with 43" Reach	\$364.15
419-224	950-900-170	9 Watt UV Bulb	\$41.50

Waldmann Omnivue Series ESD-Safe Illuminated Magnifiers

Ideal For ESD Areas

6.38" x 4.13", 3-diopter (3/4X) optical quality glass lens is combined with three 9-watt compact fluorescent lamps that provide two light levels: 18-watts of side-by-side lighting for traditional inspection applications, or 27-watts of light from the top and both sides of the magnifier for applications that require additional illumination. The magnifying lens tilts independently of the light source and allows you to see the inspection area easier—without bending or slouching. Plus, glare from overhead lighting is reduced. The adjustable arm features a ball joint design that allows you to position the ABS lamp head exactly where it's needed. In addition, all of the plastic parts are made with static-dissipative material, and all steel and aluminum parts are coated with varnish. Plastic materials have a surface resistivity of 10⁶-10⁹ ohms/square. The lamp diffuser is 10³-10⁵ ohms/square and the magnifier is 10⁴ ohms/square. The varnish is 10⁵-10⁹ ohms/square. Two models to choose from. **The Omnivue ESD (411-545)** has all of the above features and a 35" reach. **The OmnivueMax ESD (411-546)** has all of the above features and a 43" reach. Both models operate on 115VAC and come complete with on/off switch, 3-wire 6 ft. cord, lens cover, horizontal mounting clamp and 10-year warranty.

Part No.	Description	Price
411-545	ESD-Safe Magnifier with 35" Reach	\$557.65
411-546	ESD-Safe Magnifier with 43" Reach	\$557.65
419-224	9 Watt UV Bulb	\$41.50





MaxiVUE Illuminated Magnifier
Magnifying Lens Tilts at Light Source for Easier Inspection

This unit comes with 3 fluorescent 9 watt bulbs and a large stadium shaped 3 diopter lens. (6.9" x 4.2") Position of the lens can be precisely altered for maximum viewing comfort. Includes a 45" spring balanced arm.

Part No.	Description	Price
423-364	Illuminated Magnifier with 45" Reach	\$150.00



Incandescent Illuminated Magnifier

60 watt incandescent bulb provides "incident lighting" for viewing irregular work surfaces. 30" spring balanced arm with clamp included. 3" diameter 3 diopter lens.

Part No.	Lens	Base	Reach	Price
423-366	3-Diopter	Mounting Clamp	30"	\$35.00

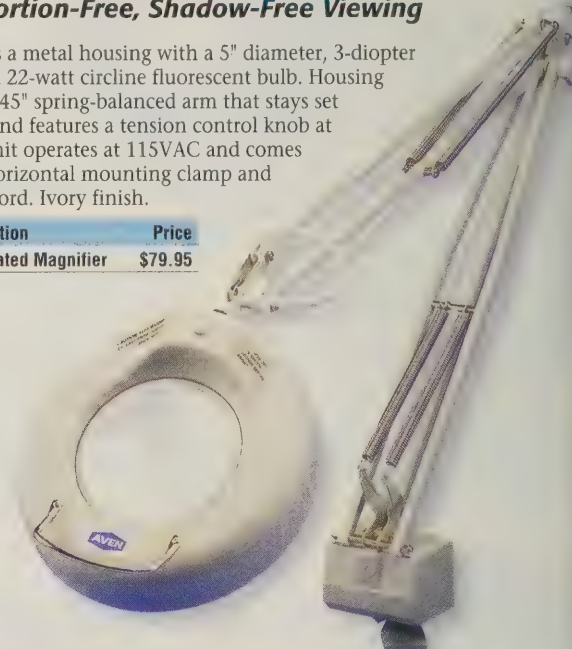


Illuminated Magnifier

360° of Distortion-Free, Shadow-Free Viewing

Magnifier has a metal housing with a 5" diameter, 3-diopter (3/4X) lens and a 22-watt circline fluorescent bulb. Housing is mounted on a 45" spring-balanced arm that stays set in any position and features a tension control knob at the arm joint. Unit operates at 115VAC and comes complete with horizontal mounting clamp and a 5-foot, 2-wire cord. Ivory finish.

Part No.	Description	Price
411-566	Illuminated Magnifier	\$79.95



Mighty Mag Illuminated Magnifiers

Large 6" x 7" Lens Reduces Eyestrain and Fatigue

Large 6" x 7", 3-diopter (3/4x) lens is combined with two 13-watt fluorescent lamps that can be switched on/off independently to provide three-dimensional or shadow-free illumination. The fully adjustable arm has a 35" reach. Two models to choose from. Model 26505 (416-646) has all of the above features. Model 26505ESD (416-647) has all of the above features and is ESD-safe with a surface resistivity of 10⁶-10⁸ ohms/square. Both models operate at 115VAC and come complete with horizontal mounting clamp and 2-wire cord. 5-year warranty.

Part No.	Model	Color	Description	Price
416-646	26505	Off-White	Illuminated Magnifier	\$127.40
416-647	26505ESD	ESD-Black	Illuminated Magnifier, ESD-Safe	\$130.00



SUNNEX

Halogen Gooseneck Lamp with Magnifier

- 10-year warranty

Combines a 12V/20W high-intensity halogen lamp with dual-lens, 4-diopter (2X) magnifier that provides a sharp view over the entire work surface. Lamp and magnifier have their own gooseneck arms. This allows you to change both the magnifier and lighting angle to provide optimum definition of detail and eliminate glare on the work surface. Operates on 115VAC and comes complete with an 8" dia. table base, on/off switch and 3-wire cord. Available with 20" or 27" gooseneck length. Bulb is rated at 2,000 hrs. and lamps come with a 10-year warranty.



Part No.	Model	Reach	Price
403-376	704-20-44	20"	\$206.00
403-373	704-27-44	27"	\$216.40
403-377	1220	Replacement Bulb	\$6.80

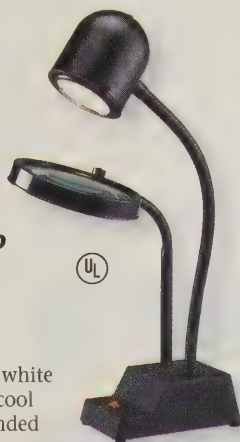
ELECTRIX

Alpha-Series Halogen Magnifier

50 Watt Halogen Lamp is 150% Stronger than Standard 100 Watt Bulb

- All metal construction
- 5" 3-diopter magnifier (1.75x)
- 22" reach flexible arms

Ideal for highly detailed inspection under bright, white light. 4" lamp shade with built-in UVB filter remains cool during operation. All metal construction and 9" grounded power cord. Five year manufacturer's warranty.



Part No.	Description	Price
381-001	Halogen Magnifier	\$153.00
381-011	Replacement 50W Bulb	\$7.65

SUNNEX

Halogen Microscope Illuminators

- Unique right angle/swivel joint adjusts to any angle providing 90° articulation and 360° rotation
- Rugged, stay-put gooseneck arm
- 10-year warranty

This illuminator features a 12V/20W halogen bulb housed in a 2-1/2" dia. X 2-1/8" high, high impact, polyamide plastic housing that will not chip or dent. A heat dissipating Dichroic reflector and clear lens provide a narrow spot and "cool" light output. Lamphead is mounted on a 27" gooseneck arm and has a unique right angle/swivel joint that easily adjusts to any angle providing 90° articulation and 360° rotation. Operates on 115VAC, and comes complete with on/off switch, 3-wire cord and 10-year warranty. Available with a weighted base or clamp-down base.



Part No.	Model	Description	Price
410-174	792S-27	Lamp with Clamp-down Base	\$191.00
410-175	793S-27	Lamp with Weighted Base	\$196.00



ELECTRIX

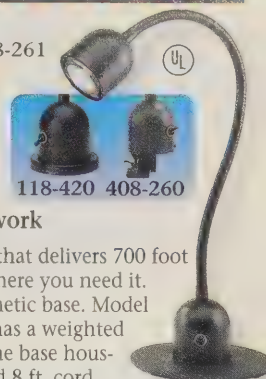
Halogen Lamps with Flex Arms

Ideal for Inspection & Task Work

- 25" flexible gooseneck
- Reverse heat dissipation-ideal for close-up work

State-of-the-art lamp houses a 20W Halogen bulb that delivers 700 foot candles of 3000°K, bright, crisp, white light exactly where you need it. Three models to choose from. Model 7305 has a magnetic base. Model 7304 has a horizontal mounting clamp. Model 6000 has a weighted base. The low voltage transformer is integrated into the base housing. All models come complete with on/off switch and 8 ft. cord.

Part No.	Model	Description	Price
118-420	7305	Halogen Lamp with Magnetic Base	\$109.00
408-260	7304	Halogen Lamp with Mounting Clamp	\$128.15
408-261	6000	Halogen Lamp with Weighted Base	\$135.85
118-321	1361	Replacement Bulb	\$8.95



SUNNEX

Halogen Gooseneck Lamps

Swivel Joint Head Provides 360° Axial Rotation & 90° Angular Adjustment.

- 10-year warranty

High intensity worklamp is ideal for use on bench work, in manufacturing, assembly and inspection. It features a 12V/20W halogen bulb housed in a 2-1/2" dia. x 2-1/8" high impact polyamide housing, with built-in finger guard, that will not chip or dent. Lamp housing is mounted on a 27" stay-put gooseneck arm that can be adjusted to direct the light exactly where you need it. Operates on 115VAC (the low voltage transformer is integrated into the base) and comes complete with on/off switch and 3-wire cord. Lamps come with a weighted base, with a clamp-down base, or with a magnetic base. Bulb is rated at 2,000 hrs. and lamps come with a 10-year warranty.



Part No.	Model	Description	Price
403-374	703-27SJ	Lamp with Weighted Base	\$162.30
403-375	702-27SJ	Lamp with Clamp-down Base	\$158.15
403-372	701-27SJ	Lamp with Magnetic Base	\$163.35
403-377	1220	Replacement Bulb	\$6.80

ELECTRIX

Halogen, Low Voltage Dual Lamp Magnifier

Dual Lights for Shadow-Free Illumination

- 24" long flexible arms
- 3" x 3" heat dissipating compact shades with UVB filter

Two models to choose from. Model 7314 has all of the above features. Model 7312 has all of the above plus, a 5" diameter, 3-diopter (3/4x) lens mounted on a 14" flexible arm. Both models operate at 115VAC and come complete with a 4" x 6" zinc-cast base and a 9 ft. grounded cord. 5-year warranty.

Part No.	Model	Description	Price
408-263	7314	Halogen Dual Lamp Without Magnifier	\$190.60
408-262	7312	Halogen Dual Lamp with 3-Diopter Magnifier	\$218.95





AVEN



100 Watt Task Light

100-watt Halogen Bulb Provides 2X More Light Than a 100-watt Incandescent Bulb

Spring balanced arm with 45" reach. Comes with clamp to mount on a table. All metal construction with satin finish. Includes 100 watt halogen bulb. Provides excellent task lighting.

Part No.	Description	Price
423-363	100 Watt Task Light	\$75.00

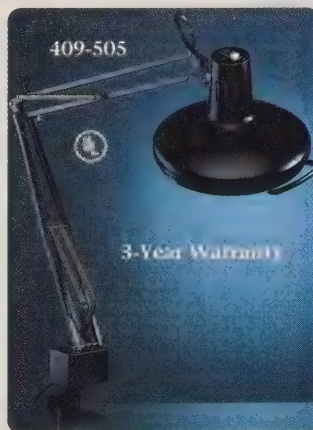


50 Watt Desk Lamp

Provides Clean, Crisp Light

Stainless steel construction housing a 50 watt halogen bulb, comes complete with spring balanced arm and in line switch.

Part No.	Description	Price
423-365	50 Watt Desk Lamp	\$47.95



LEDU Combination Task Light

Combination Light Provides Illumination for Every Situation

■ 42" spring-balanced arm

Combines a 60-watt incandescent bulb with a 22-watt circline fluorescent tube with a 3-way switch (incandescent only, fluorescent only, or both on at the same time). Includes an adjustable mounting clamp and a handle on the shade for easy positioning. A convenient 3-wire single outlet receptacle is provided in the base of the arm. Operates on 115VAC and comes complete with 3-wire cord, 60-watt bulb and 22-watt circline bulb. Available in matte black.

Part No.	Model	Color	Price
409-505	L012MB	Matte Black	\$145.00



LUXO Combination Lamp

Ideal for Working with Color-Coded Wires or Components-Colors Don't Wash Out

■ 9-1/2" shade

■ 45" adjustable arm ■ UL listed

22W circline fluorescent and 60W incandescent bulbs provide illumination for every situation. A touch of the 3-way switch permits selection of fluorescent or incandescent light, or both. Comes complete with 22W circline and 60W bulbs, and horizontal mounting clamp. Operates on 115VAC. Has 3-wire cord. Light-gray finish.

Part No.	Model	Description	Price
118-450	LC1A-G	Combo Lamp	\$189.00
118-467	T9	Replacement Circline Bulb	\$7.10



LUXO Incandescent Task Light

The lamp that set engineering and design standards for all such lamps. Shade diameter is 8". Adjustable arms reach 45" and are spring-balanced for finger-touch control, stays set in any position. Accommodates up to a 100W bulb (60W bulb included) and comes with horizontal mounting clamp. Operates on 115VAC, has on/off switch and 3-wire cord. UL listed. Steel construction. Light-gray finish.

Part No.	Model	Description	Price
118-459	LS1A-G	100 Watt Task Light	\$136.00



LEDU Fluorescent Task Light

Built-in Starter for Rapid-Start Illumination

■ 45" adjustable arm

■ UL/C-UL listed

A metal shade with molded handle houses 2-tube fluorescent lamps. Comes with drafting board style clamp, 3-wire cordset and a 600-watt convenience outlet. Available in matte black.

Part No.	Model	Description	Price
409-507	L512MB	Fluorescent Task Light, Matte Black	\$135.85



For an expanded selection of lamps & lighting visit contacteast.com or jensentools.com



UL
Weighted
Base

DAZOR

Halogen Flex Lamps

Twist, bend and turn the 34" gooseneck flexible arm, and you can position the concentrated light beam just where you want it. Two models to choose from. Model 118-415 (shown here) has a stable weighted desk base; Model 118-418 has a mounting clamp and can be clamped to any horizontal, vertical or sloped surface. All models feature on-off switch, plug-in transformer at end of power cord, 115VAC, protective shield around head (2-1/2" dia), and come complete with halogen bulb and 1-year warranty. Available in Matte Black.

Part No.	Description	Price
118-418	Lamp with Mounting Clamp, Black	\$143.92
118-415	Lamp with Weighted Base, Black	\$155.27
118-412	Halogen Replacement Bulb	\$7.40



ELECTRIX

Halogen Task Light

100 Watts of Power in a Compact Head

- 45" adjustable arm
- UL listed

This lamp is only 6-1/2" wide but has a 100W, 120V quartz-halogen bulb that delivers 650 foot candles of 3000°K, crisp, bright, white light. Comes complete with a horizontal mounting clamp, 100W bulb, and a 9-ft., 2-conductor polarized cord.

Part No.	Model	Description	Price
400-393	7395	Halogen Task Light	\$139.00
118-325	1435	Replacement Bulb	\$19.80



High Intensity Quartz-Halogen Illuminators

Meet DOD-STD-2000-1B

- 15° beam spread w/2-1/2" work area at 6"
- 10,000 hour bulb life
- 11" gooseneck arms

These Quartz-Halogen illuminators feature ultra-high shadowless lighting at a 3000°K color temperature that meets the DOD's latest standards for magnification aids and lighting. Hi-efficiency bulbs (included) have computer designed, focused reflectors that permit up to 12,500-ft. candles (25,000-ft. candles for double illuminator). Continuously variable electronic light intensity control provides full-range precision adjustment of light output for all applications aids. Illuminators are available in both single- and double-lamp versions. Both models have swivel-mounted aluminum bulb guards, heavy steel bases, 5 ft. power cords, and operate on 115 VAC.

Part No.	Model	Description	Price
118-361	240351	Lamp with Single Illuminator	\$152.00
118-362	240352	Lamp with Double Illuminator	\$198.90
118-360	240350	Replacement Bulb	\$29.60

DAZOR

Speckfinder Electronic Video Microscope

- Compact and ergonomic all-in-one design
- Flat-panel display
- High-resolution CCD camera
- Three lighting options
- Multi-function mouse
- External Connections

The Speckfinder's compact, customer-driven design brings maximum microscope flexibility to your workplace. It's small enough to fit anywhere you need to inspect small parts. Plus, the unique, flexible mounting system and generous 9-inch working distance let you get close to larger, awkward pieces that would never fit under a conventional microscope. You'll have the chance to inspect small parts for flaws - and even fix them - all under the Speckfinder. And, it swings out of the way when not in use, freeing valuable workspace.

Speckfinder Electronic Video Microscope Specifications

	100-BK	218-BK	318-BK	227-BK	327-BK
Mounting System					
Weighted Base	•				
6-Way Mounting Kit		•	•	•	•
Articulating Arm					
18-Inch		•	•		
27-Inch				•	•
Lighting System					
20-Watt Halogen	•				
6000K Ring Light		•		•	
Booster Box			•		•
Lens					
150mm	•				
250mm		•	•	•	•
Working Distance					
5-Inches	•				
9-Inches		•	•	•	•

New



Part No.	Model	Price
424-157	100-BK	\$3,800.00
424-155	218-BK	\$4,300.00
424-156	318-BK	\$4,545.00
426-886	227-BK	\$4,688.00
424-153	327-BK	\$4,640.00



System 150 (Model 18724)
Shown with Optional
Fluorescent Ringlight

System 150 1X-2X Stage Microscope

- 10X & 20X magnification ranges
- 5X & 10X (when using optional 0.5X lens)
- 5-Year Warranty

Stereoscope combines two built-in objective lenses (1X and 2X) with 10X wide eyepieces to provide 10X and 20X magnification ranges and a working distance of 4" in the 10X range. Microscope is mounted on a boom stand that can be adjusted vertically and horizontally to virtually any position. The following optional accessories are available: A 0.5X supplementary lens **Part No. 417-153** provides magnification ranges of 5X and 10X and a working distance of 8.5" in the 5X range. A fluorescent ringlight **Part No. 417-164** provides 360° of shadow-free illumination. A fiber optic light source **Part No. 118-453** features a dimmable 150-watt halogen light that produces 3350°K of bright, white light. It must be used with the double gooseneck light transmitter **Part No. 118-454** or the fiber optic ringlight **Part No. 409-443** with adjustable light ports.

Part No.	Model	Description	Price
417-154	18724	1X-2X Stage Microscope	\$943.50
417-153	18750	0.5X Objective Reducing Lens	\$127.50
417-164	18742	Fluorescent Ringlight	\$224.40
118-453	LFOD150	Fiber Optic Light Source (requires 118-454 or 409-443)	\$308.15
118-454	LFODG	Double Gooseneck Light Source	\$356.25
409-443	LFORL-CR	Fiber Optic Ringlight	\$529.15



Model 18555LG

MicroLux Microscope System

Makes Assembly & Inspection Easier

- Balanced positioning arm
- 5X to 20X magnification
- Dual halogen lights
- 10" working distance at 5X meets MIL-Specs
- 5-Year Warranty

Balanced adjustable arm has finger-touch control, a 26" reach, and will set in any position. This is the same arm used to support the famous Luxo KFM magnifier. Now your microscope can be positioned just where you want it. No more bending over, no more "fatigue factor", no more back and neck pains. Microscope comes with 10X eyepieces with a 1X and 2X objective resulting in 10X and 20X magnification. With optional 0.5X reducing lens, the microscope will range 5X, 10X and

20X. At 5X magnification, the microscope has an extraordinary working distance of 10 inches (ideal for inspection, assembly and rework) and, with illumination, complies with MIL-STD-2000, DOD-STD-2000, WS-6536E and MIL-S-45743E. Built-in dual 5-watt halogen lights with flexible neck deliver crisp, white illumination. All models are available with a horizontal mounting clamp or with a weighted base similar to Model KFM2A-G. When ordering, select model with or without lighting and choose type of base.

Part No.	Model	Description	Price
417-158	18550LG	Microscope w/ Halogen Lights & Mounting Clamp	\$861.90
417-159	18555LG	Microscope w/ Halogen Lights & Weighted Base	\$925.00
417-160	18560LG	Microscope Only	\$734.40
417-153	18750	0.5X Objective Reducing Lens	\$127.50



18712 Shipped
From Factory
Within 72 Hours

Model 250FL Stereo-Zoom Microscope System with Boom Stand and Fluorescent Ring Light

- 5-Year Warranty

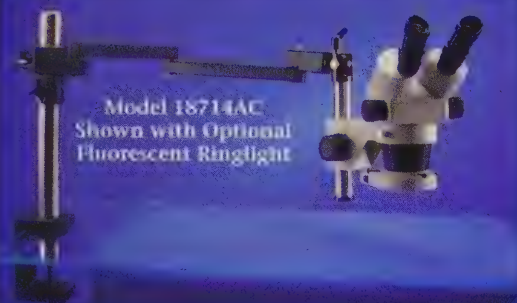
Luxo's number one selling microscope, the System 250FL (18712), features a binocular stereo-zoom microscope with 10X eyepieces, zoom range of 6.5X to 45X, boom stand and a fluorescent ring light. All Luxo scopes are made with high quality achromatic lenses, and feature anti-reflective coatings for superior visual clarity. The versatile boom stand features unique horizontal rack and pinion fine adjustment for the final 2" extension, in addition to the vertical rack and pinion fine adjustment on the focus mount. The microscope rotates 360° in the focus mount and may be angled to 45° permitting additional viewing and inspection angles. The flexibility of the system can eliminate neck craning, reduce operator fatigue and encourage correct posture.

Part No.	Model	Description	Price
417-606	18712	Microscope System w/Boom Stand, and Fluorescent Ring Light	\$1,530.00
420-647	18760	10x Eyepieces - Pair (Standard w/Scope)	\$95.80
420-648	18760	15X Eyepieces - Pair	\$100.90
420-649	18762	20X Eyepieces - Pair	\$105.90
420-650	18764	25X Eyepieces - Pair	\$126.10
420-651	18765	10X Eyepiece with reticle (Scaled at 10mm w/ 100 divisions)	\$75.70
420-652	18749	0.4X Objective Reducing Lens	\$146.90
420-653	18736	0.75X Objective Reducing Lens	\$126.10
420-654	18752	1.5X Objective Reducing Lens	\$126.10
420-655	18754	2.0X Objective Reducing Lens	\$126.10
420-656	18766	Cover Shield (1X Lens)	\$28.30

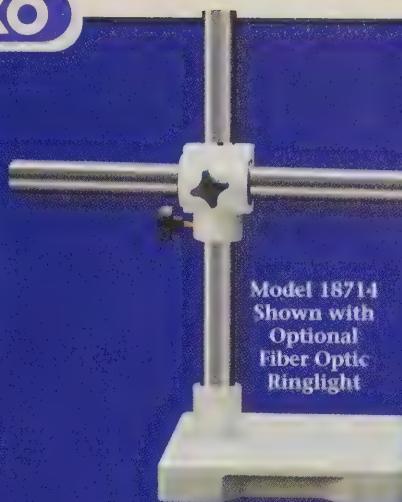


LUXO

MICROSCOPES



Model 18714AC
Shown with Optional
Fluorescent Ringlight



Model 18714
Shown with
Optional
Fiber Optic
Ringlight



Model 18714
Shipped From
Factory Within
72 Hours

System 250 Stereo-Zoom Microscope

- 6.5X to 45X-working distance 3.5"
- 3.5X to 50X-working distance 7" when used with optional 0.5X supplementary lens
- 5-Year Warranty

This microscope features 10X wide eyepieces that provide a magnification range of 7X to 50X with a working distance of 3.5". Microscope is available mounted on either an articulated arm with heavy duty clamp (attach to work surfaces up to 2.5" thick) or boom stand. Optional accessories available: 0.5X supplementary lens **Part No. 417-153** provides a magnification range of 3.5X to 50X and increases the working distance to 7". Fluorescent ringlight **Part No. 417-164** provides 360° of shadow-free illumination. Fiber optic light source **Part No. 118-453** features a dimmable 150-watt halogen light that produces 3350°K of bright, white light. It must be used with the double gooseneck light transmitter **Part No. 118-454** or the fiber optic ringlight **Part No. 409-443** with adjustable light ports.

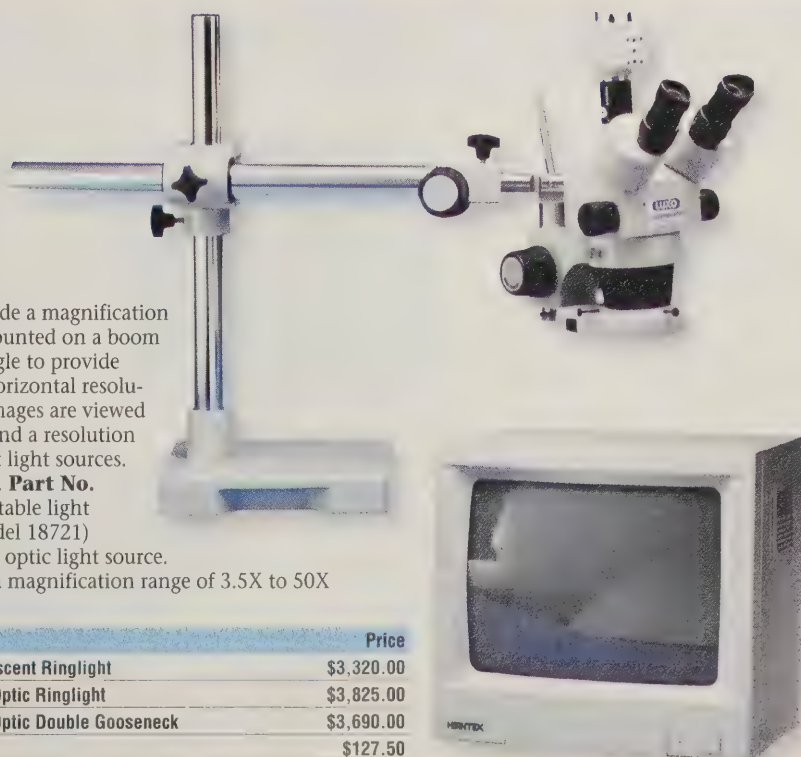
Part No.	Model	Description	Price
420-417	18714AC	Stereo-Zoom Microscope w/Articulated Arm	\$1,340.00
417-152	18714	Stereo-Zoom Microscope w/Boom Stand	\$1,280.00
417-153	18750	0.5X Objective Reducing Lens	\$127.50
417-164	18742	Fluorescent Ringlight	\$224.40
118-453	LFOD150	Fiber Optic Light Source (requires 118-454 or 409-443)	\$308.15
118-454	LFODG	Double Gooseneck Light Source	\$356.25
409-443	LFORL-CR	Fiber Optic Ringlight	\$529.15



System 350 Stereo-Zoom Microscope with Closed Circuit TV System

- 6.5X to 45X-working distance 3.5"
- 3.5X to 50X-working distance 7" when used with optional 0.5X supplementary lens
- 5-Year Warranty

This trinocular microscope features 10X wide eyepieces that provide a magnification range of 7X to 50X with a working distance of 3.5". Microscope is mounted on a boom stand that can be adjusted to virtually any vertical and horizontal angle to provide unlimited positioning. The CCD camera features up to 500 lines of horizontal resolution and mounts on to the microscope using the included adapter. Images are viewed on the included color monitor that has a 14" diagonal viewing area and a resolution of more than 400 lines (S-VHS). Microscope is available with different light sources. **Part No. 417-155** (Model 18718) comes with a fluorescent ringlight. **Part No. 417-156** (Model 18719) comes with a fiber optic ringlight with adjustable light ports and a 150-watt fiber optic light source. **Part No. 417-157** (Model 18721) comes with a double gooseneck light transmitter and a 150-watt fiber optic light source. An optional 0.5X supplementary lens (**Part No. 417-153**) provides a magnification range of 3.5X to 50X and increases the working distance to 7".



Part No.	Model	Description	Price
417-155	18718	CCTV Microscope System with Fluorescent Ringlight	\$3,320.00
417-156	18719	CCTV Microscope System with Fiber Optic Ringlight	\$3,825.00
417-157	184721	CCTV Microscope System with Fiber Optic Double Gooseneck	\$3,690.00
417-153	18750	0.5X Objective Reducing Lens	\$127.50



SCIENSCOPE

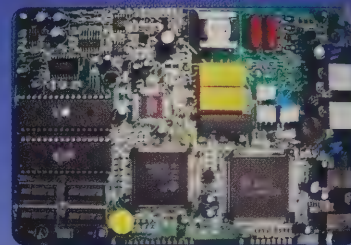
Video Inspection & Documentation System

Quickly Scan for Inspection, Then Zoom In for Details

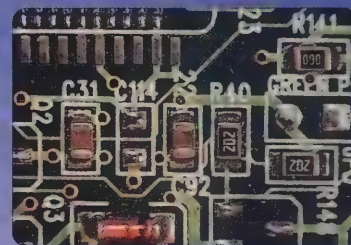
- Zoom view with 12X to 81X magnification
- Working distance adjustable from 5" to 18"
- High resolution color monitor with S-video input

This video system is ideal for inspection, training and documentation. With the magnification equal to a zoom microscope (1.36X-29.25X), it allows simultaneous viewing and photography while maintaining images in focus. The system includes a digital color camera (470K pixels) with a resolution of 470 TV lines and a high resolution monitor with S-video input for crisp, color-rich images. The camera is mounted on a heavy-duty boom stand (22" horizontal reach) for stable viewing and video capture. A fiber optic light source and annular ring light focuses the maximum transmission of intense white light and provides continuous 360° shadow-free illumination for a wide variety of applications. The optional frame grabber video interface card/software (175-942) allows you to use your PC for real-time image viewing and capture. Images can then be saved for future analysis and used in reports. The optional video interface card/measuring software (412-540) provides a full range of functions for image capture, measurement, archiving, image comparison, and result output.

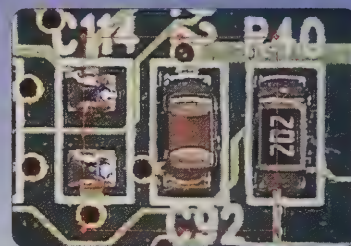
Part No.	Model	Description	Price
409-164	CC-97-VS2	Video Inspection & Documentation System	\$2,735.00
175-942	CC-97-FG	Video PC Interface Card & Software	\$700.00
412-540	CC-MS-20	PC Interface Card & Measuring Software	\$2,095.00



1X Magnification



10X Magnification



30X Magnification



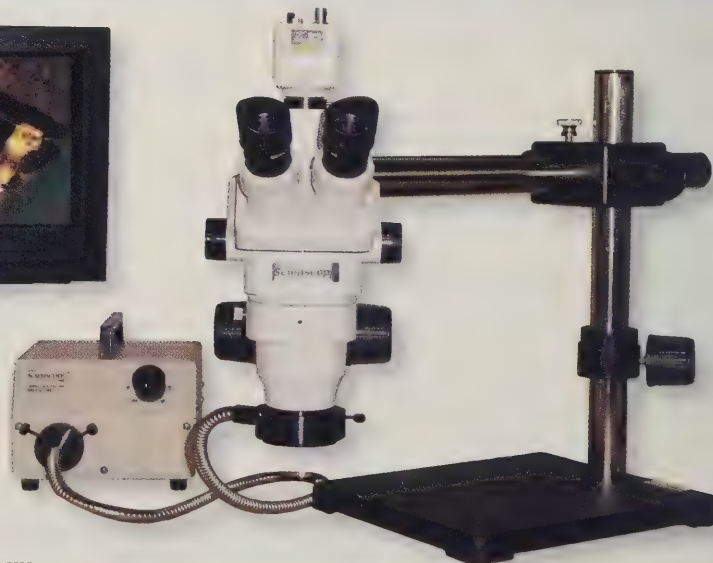
40X Magnification

SCIENSCOPE

Trinocular Microscope Video System

- 6.7X to 45X-working distance 4"
- 3.4X to 45X-working distance 7" when used with 0.5X supplementary lens
- "High eye point" eyepieces enable easier viewing by reducing the distance between eye and eyepiece
- Free ring light adapter
- Includes fiber optic light source
- Meets MIL-STD-2000
- 5-year warranty

This system includes: the SSZ Stereo Zoom Trinocular Scope with 10X eyepieces, LSD-safe boom stand, ring light adapter, 0.5x supplementary lens, fiber optic light source, annular ring light, 0.5x CCD coupler, CCD color camera and 14" color monitor to provide a complete video system.



Part No.	Model	Description	Price
417-178	SZ-PK6-AN	Trinocular Microscope Video System	\$3,230.00



Model SZ-PK4-05
Stereo Zoom Microscope
with Boom Stand, 10X Lenses,
Ringlight Adapter, 0.5X
Supplementary
Lens and Fluorescent Ringlight



Model SZ-PK5-05
Stereo Zoom Microscope
with Boom Stand, 10X Lenses,
Ringlight Adapter,
0.5X Supplementary Lens
and Fiber Optic Light Source

SCIENSCOPE

Stereo Zoom Microscopes

- 6.7X to 45X-working distance 4"
- 3.4X to 45X-working distance 7"
when used with 0.5X supplementary lens
- "High eye point" eyepieces enable easier viewing
by reducing the distance between eye and eyepiece
- Free ring light adapter
- Meets MIL-STD-2000
- 5-year warranty

Prism microscope features 10X wide lenses (23mm diameter) that provide a magnification range of 6.7X to 45X with a working distance of 4". When combined with the 0.5X supplementary lens (included), it provides a magnification range of 3.4X to 45X and increases the working distance up to 7". Interpupil distance and dual diopter adjustments allow you to fit the lenses to your individual eye vision. The microscope is mounted on an ESD-safe boom stand with an ergonomically-designed arm that allows easy oblique viewing for surface mount inspection. Two models to choose from. **Part No. 417-174** comes with a binocular pod, 10X lenses, boom stand, ring light adapter, 0.5X supplementary lens and a fluorescent ring light that simulates natural white daylight and provides 360° of shadow-free illumination. **Part No. 417-175** has all of the above features and a fiber optic light source with annular ring light for maximum transmission of 360° shadow-free intense white light.



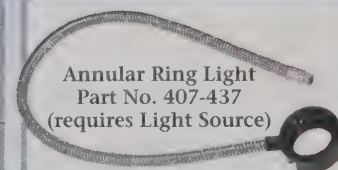
0.5X Supplementary Lens
Part No. 417-176



Fluorescent
Ring Light
Part No. 405-459



Fiber Optic
Light Source
Part No. 405-461



Annular Ring Light
Part No. 407-437
(requires Light Source)

Part No.	Model	Type of Base	Illumination	Price
417-174	SZ-PK4-FR	Boom Stand	Fluorescent Ring Light	\$1,425.00
417-175	SZ-PK5-AN	Boom Stand	Fiber Optic Ring Light	\$1,790.00
405-461	IL-F01-150	Fiber Optic Light Source	-	\$275.00
407-437	FC-A2-36	Annular Ring Light	-	\$247.20
405-459	IL-FR-21	Fluorescent Ring Light	-	\$154.50
417-176	SZ-LA-05	0.5X Supplementary Lens	-	\$119.00



Model TKMZ-73 with Boom Stand and Fluorescent Ring Light. Part No. 417-102



Stereo Zoom Microscopes

- 3.5X to 45X
- ESD-safe
- 6.5:1 zoom
- Includes 0.5X supplementary lens

This microscope combines 10X eyepieces with a 0.5X supplementary lens to provide a magnification range of 3.5X to 45X with a working distance of 3.6" to 5.8". Right and left focusable eyetubes assure correct focus from low to high magnification throughout the zoom range. In addition, there is an adjustable interpupillary distance range of 2.1" to 2.9" for optimal viewing. Microscope is available with an S-style boom stand or an articulating arm and three types of lighting (fluorescent ringlight, fiber optic ringlight or fiber optic dual light guides). The boom stand with weighted base can be adjusted to virtually any horizontal or vertical angle for easy positioning. The articulating arm clamps to the edge of your table or desk to free up workspace and can be easily moved out of the way when not in use. The fluorescent ring light with dimmable intensity simulates natural white daylight and provides 360° shadow-free illumination. A fiber optic light source with annular ringlight produces 3200°K of intense, flicker-free white light to provide uniform illumination and fatigue-free working. A fiber optic light source with dual light guides allows full freedom for hand movement underneath and easy movement of the light for difficult to see areas.

Part No.	Model	Type of Base	Type of Illumination	Price
417-102	TKMZ-73	Boom Stand	Fluorescent Ring Light	\$2,305.00
417-103	TKMZ-A	Boom Stand	Fiber Optic Ring Light	\$2,765.00
417-104	TKMZ-D	Boom Stand	Fiber Optic Dual Light Guides	\$2,769.30
417-105	TKMZ-SMS	Articulating Arm	Fluorescent Ring Light	\$2,915.00
417-106	TKMZ-SMS-A	Articulating Arm	Fiber Optic Ring Light	\$3,498.60
417-107	TKMZ-SMS-D	Articulating Arm	Fiber Optic Dual Light Guides	\$3,447.60



Model TKMZ-A with Boom Stand and Fiber Optic Ring Light. Part No. 417-103



Model TKMZ-D with Boom Stand and Fiber Optic Dual Light Guides. Part No. 417-104



Model TKMZ-SMS with Articulating Arm and Fluorescent Ring Light. Part No. 417-105



MANTIS Revolutionary Magnification System

True Three-Dimensional Stereo Images, without the Need for Eyepieces

- Up to 10X Magnification
- Brilliant Illumination
- Reduces eyestrain and operator fatigue
- Provides easy viewing of complex surfaces
- Offers true stereo images

This revolutionary magnification system picks up where ordinary bench magnifiers leave off. Mantis allows inspectors, assemblers and lab technicians to comfortably view circuit board assemblies and mechanical parts with both eyes (like you would with a large bench magnifier) yet get the power of a microscope. While illuminated bench magnifiers are easy to use they often don't give enough power. On the other hand, microscopes provide the power but are difficult to use and have restrictive working clearances. Mantis bridges the gap between bench magnifiers and microscopes. Just look into the large viewer — not tiny eyepieces — and see a brilliant, non-distorted high powered 3-dimensional image of your object. Operators can view into this astonishing instrument for long periods without eyestrain. Simply select the magnification most appropriate and comfortable for each task. Mantis features a precision optical system coupled with high-power adjustable illumination plus a large viewing field. Images are sharp and depth perception enables operators to work faster. Meets MIL-SPEC-2000. Two models to choose from.

Model 191-932 has all of the above features and comes with a counter-balanced clamp-down/screw-down stand that has a 30" reach and can be easily adjusted for correct focus and position. **Model 405-498** has all of the above features and comes with a base stand that has a built-in focusing stage with sub-stage illumination. Both models operate at 110V, weigh 19 lbs. and come complete with instructions, 2-wire 6 ft. cord and 1-year warranty. Units come without magnification lenses. Please order one or more of the lenses listed below to meet your application needs.

Part No.	Description	Price
191-932	Mantis w/Clamp Down Stand	\$1,760.00
405-498	Mantis w/Base Stand, Focus Stage & Sub-Stage Illumination	\$2,010.00



Lenses

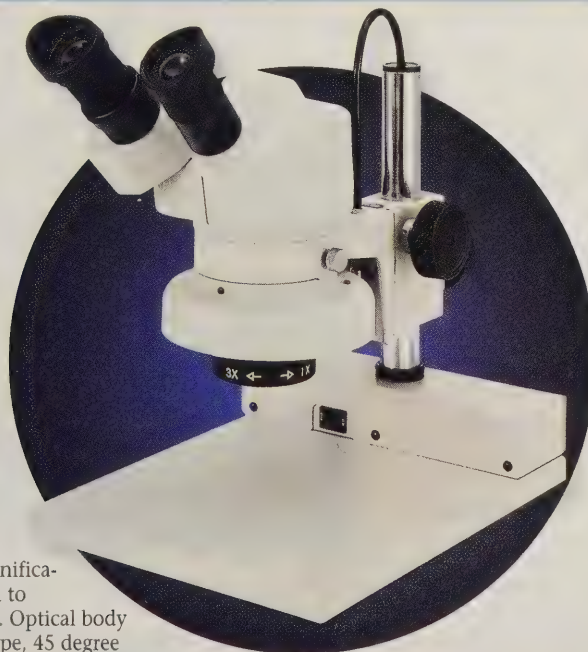
Part No.	Magnification	Distance	View	Price
401-855	2X	6.7"	2.2"	\$130.25
401-854	4X	3.4"	1.1"	\$161.25
400-791	6X	2.2"	0.8"	\$235.00
402-558	6X	4.4"	0.8"	\$839.95
400-792	8X	1.6"	0.6"	\$265.00
400-794	10X	1.6"	0.5"	\$487.50



Stereo Zoom Microscope

This microscope features a large stage with a built in 9 watt fluorescent lamp. Features include superior optics, reliable mechanical components, magnification of 10x to 44x (field of view 23mm to 5.2mm) and standard eyepieces of 10x. Optical body has a 360 degree rotatable binocular type, 45 degree inclined eyepiece tube. Included with this model are rubber eye-guards, tension control pin and dust cover.

Part No.	Description	Price
423-367	Illuminated Microscope with Base	\$965.00



White LED Illuminator

- Flicker free illumination
- 100,000 hour lifetime
- Fits on most microscopes

Contains 42 white light-emitting-diodes. This product is designed to be used with standard microscopes and lenses. It provides a stable bright light, focused to a relatively small spot at a nominal working distance of 75mm. The unit is supplied with DC power supply, complete with in-line switch for convenience of operation. These ringlights are high quality, high power and compact. Internal bore is 67mm and comes with a 24 volt power supply.

Part No.	Description	Price
423-334	White LED Ring Light	\$250.00





Zoom Stereo Microscope Package

- Complete system with boom stand and ring illuminator

High-quality complete stereo inspection system provides crisp, high-resolution images. Continuously variable magnification. Parfocal design allows objects to remain in focus while zooming in or out. Dual power ranges 6.5-45X or 3.5-22.5X by installing 0.5X auxiliary lens included. Use of auxiliary lens increases working distance to 7.5" allowing plenty of working room under scope for rework or repair operations. 10X widefield eyepieces. Adjustable interpupillary distance with separate diopter adjustments. Includes heavy-duty boom stand with tilt, and knob-controlled fore-aft positioning, fluorescent ring illuminator with spare tube and starter. 115VAC. Five year manufacturer's warranty.

Part No.	Description	Price
147-001	Zoom Stereo Microscope Package	\$1,199.00

Stereo Inspection Microscope

- 10X and 20X magnification

Excellent choice for electronic inspection and rework. Compact microscope takes up very little work-space, yet allows inspection of larger objects such as printed circuit boards, assemblies, etc. Long working distance of 6" at 10X magnification. Convenient power change with slide-in objective modules. Built-in illuminator with articulating arm allows infinite positioning. Weighted stand with 9" arm is fully adjustable. 10X widefield eyepieces. Includes dust cover and rubber eye cups. 115VAC. Five year manufacturer's warranty.

Part No.	Description	Price
147-003	Stereo Inspection Microscope	\$349.00

Zoom Stereo Microscope

- Same microscope head as 147-001 in a compact integrated base

Sharp image quality, powerful illumination and compact portability in one versatile unit. Continuous zoom magnification from 6.5-45X. 10X widefield eyepieces with cups. Integrated base with fluorescent bottom and powerful halogen overhead illuminators. 5-1/2" clearance under objective lens. 3-3/4" working distance. Precision rack and pinion focus. Adjustable interpupillary distance with separate diopter adjustments. 115VAC. Five-year manufacturer's warranty.

Part No.	Description	Price
418-805	Zoom Stereo Microscope	\$713.00

Deluxe Stereo Microscope

- Selectable 20X or 40X magnification
- Bottom transmitted and overhead illuminators

Compact general purpose stereo microscope is ideal for a wide variety of electronic and industrial applications. Includes 2X and 4X objectives on rotary turret with positive click stop for easy power change. 10X eyepieces. Precision rack and pinion focus. 45° inclined eyetubes. Working distance: 3.15" at 20X. Includes dust cover and rubber eye cups. 115 VAC. Five year manufacturer's warranty.

Part No.	Description	Price
147-002	Deluxe stereo Microscope	\$249.00

ProVision 100™ Fiber-Optic Inspection Scope

- Time and Money Saver for Electricians, Telecom Installers and Other Professionals
- Built-in Illuminator

High-quality, affordable flexible borescope/fiberscope allows detailed viewing into holes and confined spaces with as little as 1/2" clearance. See behind walls, inside machinery, and more without costly demolition or disassembly. High-resolution lens provides clear image of objects as close as 3/4" and over 1' away. Wide, 40-degree field of view. Powerful 2.4V lamp illuminates dark spaces on-demand with pushbutton on handle. 18" cable adjusts to any position and maintains its position until re-adjusted. Sealed lens is submersible underwater. One-handed focus ring and comfort-designed non-slip handle. Includes rugged storage case. Requires two AA batteries sold separately.



Part No.	Description	Price
301-001	ProVision 100 Fiber Optic Inspection Scope	\$305.00
473-002	Industrial Alkaline AA	\$0.94



BAUSCH & LOMB



Illuminated Coddington Magnifier

10X magnifier with a focal point at 1". Flashlight bulb inserted into groove of Coddington lens illuminates object being examined. Operates with two penlight batteries, not included. Length 6".

Part No.	Description	Price
119-588	Illuminated Coddington Magnifier	\$30.00



Super Magna-Lite

- 2X lens with 4X bifocal
- Includes flashlight

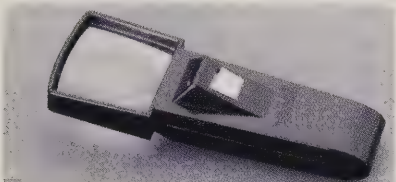
Large size model with unbreakable, 3-1/2" diameter optical quality magnifying lens. Wide lens plus bright illumination allows easier inspection of microcircuits, miniature assemblies, and intricate detail work. Ruggedly built, weighs 7-1/2 oz. 9" long. Complete with bulb and AA penlight batteries.

Part No.	Description	Price
152-200	Super Magna-Lite	\$20.75

Magna-Lite

Popular Pocket Illuminated Magnifier

Pocket magnifiers feature optical quality lens and a wide beam light (with on/off switch) that brightly illuminates the object being examined and reduces eye strain. Rugged and compact (only 5" long) comes complete with two AAA batteries.



Part No.	Power	Price
119-509	3X	\$12.25
119-503	5X	\$9.20
119-539	10X	\$16.60

ESCHENBACH

Illuminated Magnifiers Now with Halogen Light

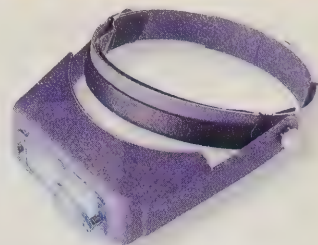
Lens diameter is 35mm (1.38") and magnifier has a removeable scale graduated in increments of 0.5mm and 1/64". Battery powered models operate on two C-sized batteries (not included). Halogen models operate on 110VAC and have a 6 ft. cord. Both models feature a high-impact plastic housing.



Part No.	Description	Power	Magnification	Price
410-169	Standard Bulb	Two C-Batteries	6X	\$52.95
410-170	Halogen	110VAC	6X	\$154.00
410-700	Standard Bulb	Two C-Batteries	10X	\$54.95
410-701	Halogen	110VAC	10X	\$144.95
119-514	Standard Replacement Bulbs (5/Pkg)			\$9.00
119-515	Halogen Replacement Bulb (1/Pkg)			\$20.65

OptiVISOR® Binocular Magnifier

- Leaves both hands free
- Tilts up when not in use
- Can be worn over prescription or safety glasses



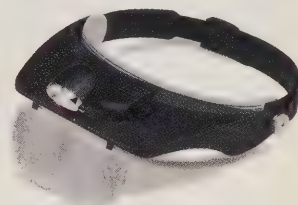
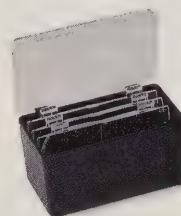
Magnifier provides hands-free operation and features optically polished glass lenses mounted in a continuous headband that easily adjusts to fit any head size. Adjustable pivot knobs hold visor in any position for easy flip-up viewing. Available in six magnification strengths: 1.5X, 1.75X, 2X, 2.5X, 2.75X and 3.5X. An optional auxiliary lens (407-033) adds extra power (2.5X) for monocular use.

Part No.	Magnification	Working Distance	Price
407-027	1.5X	20"	\$37.50
407-028	1.75X	14"	\$37.95
407-029	2X	10"	\$36.70
407-030	2.5X	8"	\$36.70
407-031	2.75X	6"	\$36.70
407-032	3.5X	4"	\$37.95

Auxiliary Lens

Easily attaches over either eye of any OptiVISOR and swings out of the way like a spectacle loop. Adds extra power (2.5X) for monocular use.

Part No.	Magnification	Description	Price
407-033	2.5X	Auxiliary Lens	\$8.95



Illuminated Magnifier Visor

Ideal for hands-free precision work and inspection. Includes 4 interchangeable lenses: 1.2x, 1.8x, 2.5x and 3.5x. Lens swivels out of the way when not in use. Built in illuminator head swivels to most any position. Comfortable, fully adjustable headband. Includes storage case for lenses. Requires two AAA batteries sold separately.

Part No.	Description	Price
803-550	Illuminated Magnifier Visor	\$52.85
473-001	Industrial Alkaline AAA	\$0.97

MagEye's®



Hands-Free Dual Lens Magnifier

- Includes 1.6X and 2X lenses

This head-mounted magnifier offers distortion-free magnified viewing in a comfortable, ultra-lightweight (1.75 oz.) unit. Binocular lenses pop out to change power. Cushioned headband. Visor swings out of the way when not in use. Wear with or without eyeglasses.

Part No.	Description	Price
472-001	Hands-Free Dual Lens	\$25.75



Precision Magnifiers

Adjustable Focus Provides Sharp Image

Transparent lower part of barrel allows plenty of light for accurate measurement. Two models to choose from: 7X with 1" field and 10X with 1-3/8" field. Both models come with precision multipurpose scale that permits measurement of inches in 0.005" and millimeters in 0.1mm. Magnifiers come with protective lens cap, measuring scale, and soft deluxe case.



Part No.	Description	Price
119-528	7X Magnifier	\$67.60
119-529	10X Magnifier	\$92.90

Wide Field Illuminated Magnifier

10X double-lens magnifier has built-in light to illuminate object being examined. Field of vision is over 1". Operates on two size C batteries (not included) and is 6-3/4" long.



Part No.	Description	Price
119-527	10X Illuminated Magnifier	\$35.65
473-003	Alkaline Battery Size C	\$1.55

Magnifying Glasses

Designed to be held away from eyes to show a larger magnified surface area. Feature ground and polished optical glass lenses.



Part No.	Power	Lens Diam.	Price
119-579	1.6X	2"	\$14.05
119-580	1.2X	3-1/2"	\$21.65
119-581	1.2X	4-1/2"	\$28.60

Stand Microscopes

Small, lightweight and conveniently portable microscopes, only 5" high. Bright resolving power and smooth-working precision mechanism. Graduated scales measure down to 0.002" (119-532), 0.001" (119-533) and 0.0005" (119-534), and rotate 360°. Comes with rubber eyecup in molded protective storage case.



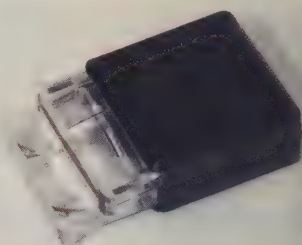
Part No.	Power	Field of View	Price
119-532	25X	.130"	\$203.15
119-533	50X	.078"	\$229.00
119-534	75X	.043"	\$242.10

Double Lens Pocket Magnifier

New

Slide Out Lenses

Double lens pocket magnifier with hard plastic case. Small and lightweight enough to keep in your pocket or toolkit.



Part No.	Magnification	Lens Size (mm)	Price
423-327	3x, 5x, 6x and 10x	38MM x 26MM	\$4.80

BAUSCH & LOMB

Magnifying Loupes

Rest Comfortably in the Eye Socket

Lightweight, yet sturdy. Plastic mount. 1" lens.



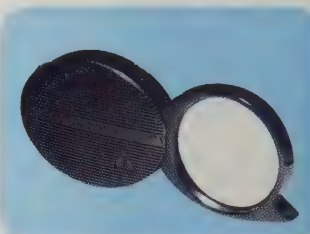
Part No.	Power	Working Distance	Price
119-599	10X	1"	\$14.45
119-600	7X	1.5"	\$12.15
119-601	5X	2"	\$12.15
119-602	4X	2.5"	\$12.15
119-605	Loupe Holder for Spectacles	—	\$9.90

BAUSCH & LOMB

Folding Pocket Magnifiers

Available with One, Two or Three Lenses

Swing-away case of tough, durable plastic serves both as a handle and as a protective case. Lenses can be used alone or in combination to produce different powers.

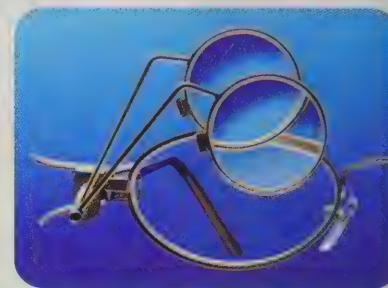


Part No.	Power	Lens Size (mm)	Working Distance	Price
119-583	4X	35 (1 lens)	2.5"	\$15.45
119-584	4X to 9X	23 (2 lenses)	1.1" to 2.5"	\$21.75
119-585	5X to 12X	20 (2 lenses)	0.8" to 2"	\$21.75
119-586	5X to 20X	20 (3 lenses)	0.5" to 2"	\$26.55

BAUSCH & LOMB

Eyeglass Loupes

Swing-away eyeglass loupe with secure mounting system for regular eyeglasses and standard safety eyewear. Lenses can be used alone or in combination to produce different powers. Available in single or double lens configurations. Case and attachment options included.



Part No.	Power	Working Distance	Price
423-333	7X	1.5"	\$34.85
423-319	3X & 5X (2 lenses)	3.3" - 2"	\$40.00
119-603	4X & 7X (2 lenses)	2.5" - 1.5"	\$40.00



Pocket 4-Prong Retrieval Tool

■ Pick up or hold small parts

Depress plunger and four spring steel wires open to 1-1/8" for grasping small parts. Nickel-plated brass body.



Part No.	Description	Length	Price
31-300	Parts Holder	5-3/4"	\$5.50

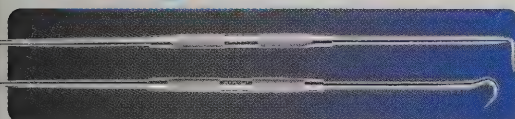
5-Piece Scriber/Hook Set

Handy, pocket-size set contains one 4-1/2" x 5/16" hex shaped handle and four hardened steel interchangeable points that include: Straight, 90° bent, 'U' hook and a double angle ('S' shape). Two sets available: **Part No. 125-660** comes with a magnet inset into the handle for retrieving small parts and **Part No. 125-659** comes without magnet. Both sets are packaged in a convenient, vinyl pouch.



Part No.	Description	Price
125-660	Scriber/Hook Set with Magnet	\$7.80
125-659	Scriber/Hook Set without Magnet	\$6.70

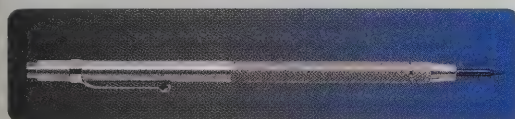
Moody®



Double-End Scriber

High-tempered and hardened tool steel. Both ends precision ground for exacting and delicate scribing. Knurled handle. Length 8-1/2".

Part No.	Description	Price
125-672	Straight — Angled 90°	\$3.10
125-673	Straight — Spring Hook	\$3.20



Pocket Scribes

Sturdy knurled and nickel-plated steel body with hexagon head. Points are swaged and hardened of needle steel, and may be reversed in body for safe storage.

Part No.	Body Diam.	Blade Length	Price
125-676	3/8"	2-1/4"	\$5.55
125-678	1/4"	3"	\$4.20

EXCELTA

Pen-Vac

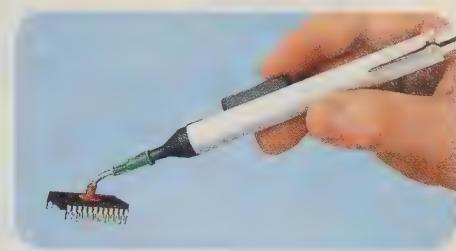


Ideal for Very Small, Flat, Components

■ Self-Contained vacuum pick-up tool

This lightweight (1oz.) pen sized tool is ideal for picking, placing and removing flat components of 50 grams or less. Includes two 45° angled probes, one 1/4" cup and one 1/8" cup. Comes with pocket clip and storage tube. Length: 5-3/4". Pen-Vacs, cups and probes are shown in ESD-Safe models.

Part No.	Description	Price
116-613	Pen Vac	\$48.95
407-051	Pen Vac - ESD Safe	\$45.75



Replacement Probes with Cups

Part No.	Description	Price
403-451	Probe w/ 1/4" Cup	\$2.90
403-452	Probe w/ 1/8" Cup	\$2.55
407-208	Probe w/ 1/4" Cup - ESD safe	\$2.90
407-209	Probe w/ 1/8" Cup - ESD safe	\$2.90

Vacuum Pick-up

Handles delicate miniature objects without scratching, breaking or pinching; avoids contamination of the parts; performs tweezer functions such as sorting, picking up, holding, carrying, etc. (so that you can dial the exact vacuum pressure) and delivers up to 14" Hg of vacuum. Control hole in pencil-size handle lets you create or break vacuum with fingertip control. Unit measures only 2-3/4" x 4-1/2" and operates on 115VAC with on/off switch. Unit includes generator, pencil-size handle, and comes complete with 4 ft. tubing, in-line filter, and five stainless steel probes. (O.D. from .025" to .075"). Optional accessory set **Part No. 191-816** contains eight neoprene cups that, fitting over probe tip, facilitate picking up larger objects. (Cup diameters: 3/16" to 5/8" by 16ths).

Part No.	Description	Price
191-814	Vacuum Pick-up Unit	\$72.95
191-816	Accessory Set (8 Neoprene Cups)	\$13.65



Replacement Probe Tips

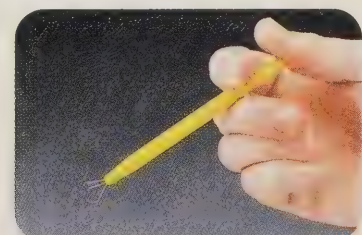
Part No.	Gauge	O.D.	I.D.	Price
116-394	15	.071"	.052"	\$3.15
116-395	16	.065"	.045"	\$3.15
116-396	21	.032"	.020"	\$3.15
116-397	22	.028"	.016"	\$3.15
116-398	23	.025"	.013"	\$3.15



4-Piece Dental Explorers Set

Four professional double-end dental picks, including one each of four popular styles. Brightly polished stainless steel.

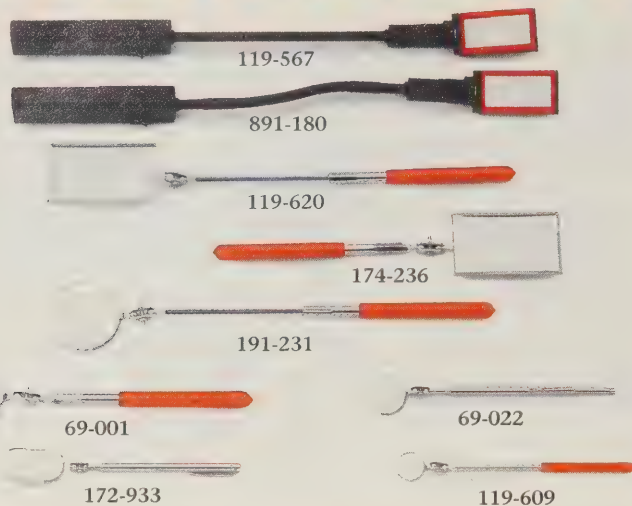
Part No.	Description	Length	Price
197-004	Dental Explorers Set, 4 pc.	6-1/2"	\$27.50



Pick-Up Tool

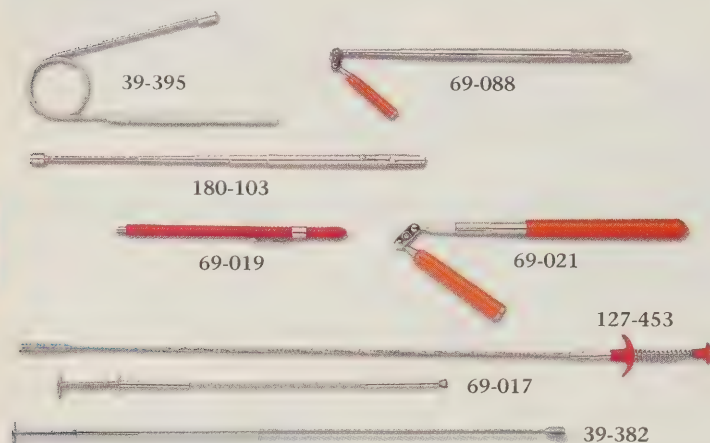
Pick up small pieces and parts with just a press of the thumb. Made from plastic with a 3-prong spring steel claw to securely hold screws, bolts, and nuts. Length 5".

Part No.	Description	Price
127-406	Pick-Up Tool	\$5.05



Inspection Mirrors

Part No.	Description	Length	Magnifier	Price
119-567	Mirror, Lighted	18"	-	\$24.95
891-180	Mirror, Lighted	18" Flex	✓	\$30.00
119-620	Mirror, 2 x 3-1/2"	11"-15"	-	\$7.15
174-236	Mirror, 2 x 3-1/2"	11-15"	✓	\$12.20
191-231	Mirror, 2-1/4"	10-14"	-	\$7.40
69-001	Mirror, 2-1/4"	10-14"	✓	\$8.75
69-022	Mirror, Magnet	5-19"	-	\$7.90
172-933	Mirror, 1 x 2"	5-19"	-	\$7.70
119-609	Mirror, 7/8"	7-1/2"	-	\$4.75



4-Prong & Magnetic Retrieval Tools

Magnetic retrievers feature strong Alnico magnets to securely retrieve parts from hard-to-access places. Your choice of telescoping, fixed or flexible styles. 69-021 and 69-088 have articulating arm. 39-382 features squeeze-grip for on/off magnetic action. 4-Prong Retrievers are flexible and operate with push-button retractable hook prongs to securely grip objects.

Part No.	Description	Length	Price
69-021	Magnetic, telescoping	15"	\$8.40
69-088	Magnetic, telescoping	20"	\$7.25
180-103	Magnetic, telescoping	24"	\$7.40
39-382	Magnetic, flexible, on/off	24"	\$10.40
69-019	Magnetic, fixed	6"	\$3.50
39-395	Magnetic, high-power, flexible	24"	\$7.25
127-453	4-prong Retrievers	24"	\$5.65
69-017	4-prong Retrievers	13.5"	\$6.95

CARICA™
Extraordinary Innovations.

Illuminated Inspection and Retrieval Kit

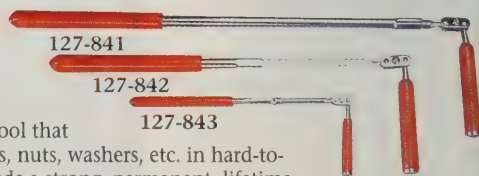
Quality kit contains high-intensity krypton illuminated telescopic handle and quick-change mirrors, magnifiers and retrieval magnets. Illumination adjusts from flood to spot with one hand. Shatter-resistant mirrors and magnifiers. Powerful magnets with retractable PowerHed™ reduces side-pull by 99.9%. Includes 7-32" illuminated telescoping handle; 3-1/2 x 2-1/4", 2-1/2 x 1-3/4", 2-1/2 x 3/4" inspection mirrors; 2-1/2 x 1-3/4" 3X inspection magnifier, 3 lbs and 14 lbs retrieval magnets.



Part No.	Description	Price
242-001	Illuminated Inspection and Retrieval Kit	\$72.95

Magnetic Pickup Tools

A magnetic retrieving tool that picks up ferrous metal bolts, nuts, washers, etc. in hard-to-reach places. Features include a strong, permanent, lifetime magnet, tempered spring steel ball joints that permit the magnet to be rotated through 360°, and insulated vinyl grips. Telescoping models have hex inner rod that prevents magnet from swinging out of preset alignment.



Part No.	Style	Length	Price
127-841	Telescopic	17" to 25"	\$9.80
127-842	Telescopic	11" to 15"	\$8.95
127-843	Pocket	8-1/2"	\$5.35

JONARD Spring Tools

■ Remove, retrieve, and install springs

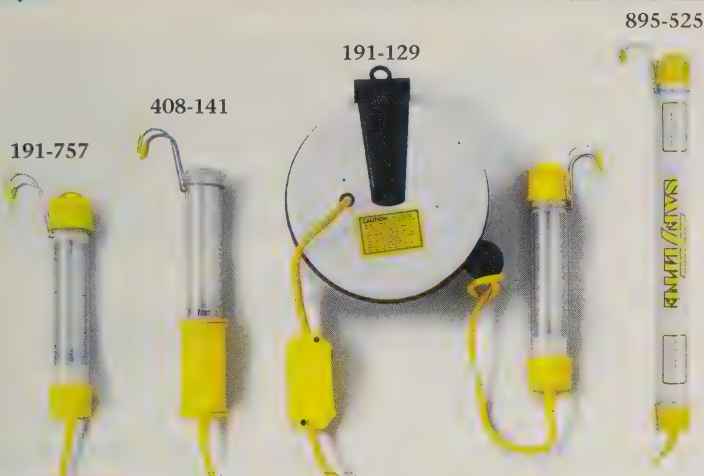
Part No.	Description	Type	Length	Price
419-611	Spring Tool	Combination	8"	\$3.55
759-145	Spring Tool	Captive	7"	\$11.15
419-612	Spring Tool	Pull	6"	\$3.85
419-613	Spring Tool	Push	6"	\$3.55

Telescoping Inspection Mirror and Pick-Up Tool

All-angle ball joints hold 1-1/4" round mirror firmly in position at any angle, making tool ideal for inspecting behind obstructions or checking work in hidden areas. Powerful magnet on opposite end retrieves nuts, bolts, and tools in hard-to-reach areas. Telescoping handle is chrome plated, extends from 5-5/8" to 19-7/8" and has a pocket clip.



Part No.	Description	Price
119-614	Inspection Mirror and Pickup Tool	\$7.90



SAFELITE Worklights

- High-intensity fluorescent lamp: 4X more efficient than incandescent
- Meets OSHA standards

"Stubby" worklights are ideal for getting into small openings or tight turns. 13W fluorescent lamp is safe to handle, won't get hot, no danger of burns. Produces as much light as a 60W incandescent with lower energy consumption and bulb life up to 10x longer (10,000 hours typical). Full-length reflector for non-glare illumination. Constructed for rough-service with Lexan outer tube and protected power switch. Includes metal mounting hook. Optional **magnetic mounting clamp** provides added convenience. 115VAC.

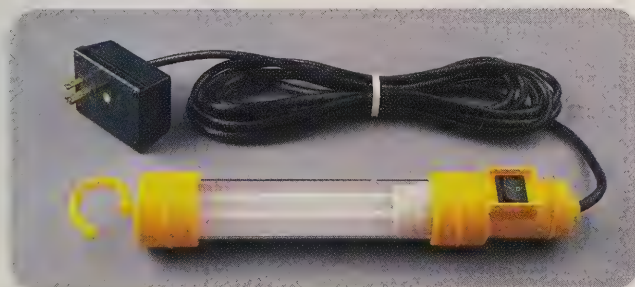
408-141: Standard "Stubby" worklight with 25' power cord.

191-757: "Stubby II" Includes all features of the standard "Stubby" with the addition of reflected end lighting similar to a conventional flashlight for seeing into tight places.

191-129: "Stubby" worklight on a fully grounded steel power reel with 40' retractable light cord and 2' line cord.

895-525: Lights a greater area than a 150W incandescent bulb for 1/10 the electricity. 15W fluorescent lamp is replaceable and protected by shatter-proof insulated enclosure. 25' cord, hanging hook. 115VAC. 20 x 1-3/4".

Part No.	Description	Price
191-129	Stubby Worklight w/40' Power Reel	\$92.10
408-141	Stubby Worklight w/25' Cord	\$41.55
191-757	Stubby II Worklight w/25' Cord	\$54.05
191-659	Magnetic Mounting Clamp	\$10.15
191-327	Replacement Lamp Assembly	\$12.50
895-525	Fluorescent Trouble Light	\$49.15



Compact Fluorescent Work Light

Compact light features a 13-watt twin tube fluorescent in a shatter resistant housing with a non-glare reflector, on/off switch built into the handle and a 3-wire 15-foot 110VAC cord. Light is cool to the touch when in use and a hanging hook allows 360° rotation. Measures 12.5" long. UL listed.

Part No.	Description	Price
120-989	Compact Fluorescent Work Light	\$30.10



Industrial Flashlights

221-618 High-impact industrial flashlight Requires two D-batteries sold separately.

221-217 UL and Bureau of Mines approved waterproof safety model Requires two D batteries sold separately.

221-100 AA penlight with on-off switch, batteries included. 1-020 AAA penlight, batteries included. (USA)

Flashlights sold separately



Part No.	Description	Price
221-618	Industrial Model Flashlight	\$8.95
221-217	Safety Model Flashlight	\$12.15
221-100	Penlight w/AA Batteries	\$4.85
127-937	Penlight w/AAA Batteries	\$4.10
133-121	Magnetic Flashlight Holder, AA Size	\$10.15
133-021	Magnetic Flashlight Holder, D Size	\$20.35
127-771	Industrial Alkaline D	\$1.55

50" Tri-Connect Outdoor Extension Cord

14-gauge, 3-wire grounded extension cord with three grounded outlets. Rated 15A (1875W) load. Orange vinyl.



Part No.	Description	Price
121-036	50' Tri-Connect Extension Cord	\$23.10

Rugged Outdoor Extension Cords

Industrial-quality three-wire grounded extension cords. All-season vinyl jacket remains flexible. Meets OSHA and UL standards. Heavy-duty 12-gauge or medium-duty 16-gauge wire. 125VAC rated.



Part No.	Description	Length	Amps/Watts	Price
543-001	12-Ga. Extension Cord	25'	15/1875	\$19.50
543-002	12-Ga. Extension Cord	50'	15/1875	\$29.95
543-003	12-Ga. Extension Cord	100'	15/1875	\$52.00
543-004	16-Ga. Extension Cord	50'	13/1625	\$17.45
543-005	16-Ga. Extension Cord	25'	10/1250	\$29.65



M6 LED Flashlight with Cordura® Holster

- 10,000 hours of lamp life
- Super bright LED beam

Water resistant. New, advanced super bright LED flashlight powered by two lithium cells with a CNC-machined aluminum body. Tail switch provides on/off or momentary action. Safety lockout switch prevents inadvertent switching. Cordura holster and two CR123 lithium batteries included. Lifetime warranty.



Part No.	Description	Price
424-129	M6 LED Flashlight with Cordura® Holster	\$84.00

Super SabreLite® Xenon Flashlight

Xenon Lamp is 400% Brighter Than Conventional Flashlights

- 12,000 candlepower

Submersible to 2000'. Carries FM, CSA, MSHA and UL approvals. Meets UL Class 1, Division 1 and applicable military specs. Unbreakable polycarbonate construction. Includes belt spring clip, stainless split-ring, lanyard. Requires three C batteries sold separately.



Part No.	Description	Price
400-836	Super SabreLite Xenon Flashlight	\$26.95
400-837	Replacement Lamp	\$10.95
473-003	Industrial Alkaline C	\$1.55

L1™ LED Compact Flashlight

50,000 Hours of Usage

Provides a concentrated close-quarter beam. The LED lamp generates intense white light and provides 50,000 hours of usage. Uses four replaceable LR44 1.5V alkaline coin cells (included) for 100 hours of battery life. Compact rugged case measures 2-11/16 x 1". Pushbutton end-mounted on/off switch. Includes break-away safety lanyard.



Part No.	Description	Price
432-100	L1 LED Flashlight	\$13.70



M10 Professional C-cell Flashlight

One of the Most Powerful & Rugged in the Industry

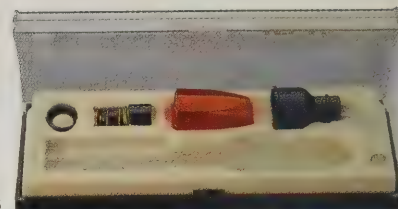
Body constructed of Xenoy™ polymer with unbreakable hi-temperature polycarbonate lens. Thermoplastic rubber grip and head resists chemicals and provides a sure grip. Pre-focused xenon lamp module. O-ring sealed. Requires four C-cell batteries (sold separately). Safety yellow and black. 11" x 2".

Part No.	Description	Price
432-010	M10 Professional C-cell Flashlight	\$40.00
432-011	Replacement Lamp	\$12.50
473-003	Industrial Alkaline C	\$1.55

Mity Lite™ Pocket Flashlight System

- Watertight to 500 feet
- FM, CSA, and AUS approved non-incendive

Industrial pocket flashlight is made of unbreakable Lexan® resin and is certified for hazardous and explosive environments. It features a pocket clip and a Xenon-fired lamp with a focused beam that's 600% brighter than ordinary pocket lights. Operates on two "AA" batteries (included), measures 4-3/4" long x 5/8" diameter, and weighs 1.5 oz. (with batteries). Comes complete with reusable designer box, 90° fiber-optic inspection adapter, red lens for night vision applications, spare lamp module, stainless steel split ring for key chain use, and spare "O" ring. Black finish. Lifetime warranty.



Part No.	Description	Price
400-835	MityLite™ Mini-System	\$15.65
432-190	MityLite™ Flashlight Only	\$12.95
400-838	Lamp Module	\$4.95

Heads Up Lite™ Hands-Free Headlamp

Watertight to 500'. Two krypton lamps, one high-intensity and one low-intensity for extended burn time. Adjustable beam. Large on/off switch. Corrosion proof ABS polymer construction. Comfortable forehead pad and cloth elastic headband fastens securely to head or hats. Four AA batteries included. Carries FM, CSA, MSHA safety approvals.



Part No.	Description	Price
432-260	Heads Up Lite Hands-Free Headlamp	\$36.50
432-264	Replacement Bulb, Low Intensity	\$3.25
432-265	Replacement Bulb, High-Intensity	\$3.25



For replacement batteries, see page 437

HeadsUP Lite® Hands-free Headlamps

Combining LED lighting technology with xenon or halogen lamps make HeadsUP Lite a powerful series of hands-free lights. Tri-LED back-up lamp rated at 9 lumens. Focusable beam. Polycarbonate lens is scratch-resistant. Adjustable cloth headstrap adjusts to fit comfortably. UL Class 1 Div. 2 safety approvals pending.

419-783 features 25 lumen xenon primary light output. 2-3 hour xenon and 80 hour LED burn time. Uses 3-AAA alkaline batteries (included). Weighs 4.9 oz with batteries.

419-784 features 66 lumen halogen primary light output. Rear-mounted battery case accommodates 4-AA alkaline batteries providing 3 hour halogen and 80 hour LED burn time. Weighs 10.7oz with batteries.



Part No.	Description	Price
419-783	2620CS Xenon/LED Headlamp	\$31.95
419-784	2640CS Halogen/LED Headlamp	\$36.95



TopSpot® 2 Combination Flashlight/Headlamp

- 5600 candlepower Krypton bulb

Adjustable beam focus and powerful light source make this light ideal for demanding field use. 45° tilt head. Padded inner lining and elastic band allows the unit to convert to headlamp for hands-free operation. Operates 4-1/2 hours on four AA batteries sold separately.



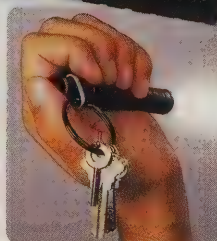
Part No.	Description	Price
777-739	TopSpot Flashlight/Headlamp	\$27.50
777-738	Replacement Bulb	\$3.70
473-002	AA Alkaline Battery	\$0.94



Hi-Intensity LED Flashlight

- Tri-LED array produces 42,000 millicandelas of light
- Ultra-rugged construction - preferred by law enforcement and other professionals

Features an array of three super-bright LED "solid-state" bulbs delivering brilliant white light. Easily illuminates a room, vehicle or pathway. Machined aluminum with non-slip knurled grip. Black anodized inside and out to prevent corrosion. O-ring sealed. Unbreakable Lexan® lens. Dual switch operation: momentary blink and locking-on. 100,000 hour bulb life. Operates over 12 hours continuously on three N batteries (included). Rear swivel collar with lanyard. Includes detachable key-ring. 5-1/2 long, 11/16" diameter. Individually serialized with lifetime manufacturer's warranty.



Part No.	Description	Price
434-025	Baton Lite LED Flashlight	\$30.85
434-026	N Alkaline Batteries Pkg/6	\$8.00



Trident™ Combination Krypton/LED Headlamp

The ultimate in convenience, safety and dependability. Combines a super-bright Krypton bulb with 3 LED's for high power and long battery life. Three-way lighting with single LED on for short range, 3 LED's on for worklight and Krypton on for long distance illumination.

Durable, water-resistant, unbreakable polymer body. 90-degree tilt head. Spot to flood focus. Lightweight and comfortable with adjustable elastic fabric strap. Battery life up to 150 hours. Uses three AAA alkaline batteries (included). Optional rubber strap holds headlight securely on hardhats.

Part No.	Description	Price
425-170	Trident Krypton/LED Headlamp	\$30.85
419-609	Optional Rubber Strap F/Trident	\$4.05

Stylus™ Hi-Intensity LED Penlights

- Choice of LED color

Finely crafted, ultra-slim penlights feature a hi-intensity LED "solid-state lamp" which lasts 100,000 hours and emits bright white, red, or blue light. White models emit natural light for general purpose use. Blue and red models are excellent for use where preserving night vision is important. Operates over 10 hours on AAAA alkaline batteries included. Waterproof case is quality constructed of 6000-series tempered aircraft aluminum with black or gold anodized finish. Long or short lengths. Non-slip knurled grip. Pocket clip. Momentary and constant-on switches. Individually serialized with lifetime manufacturer's warranty. 434-022 features an attractive gold-anodized finish and presentation box.

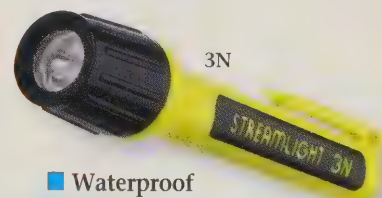


Part No.	Description	Case Color	Light Color	Length	Price
434-018	Stylus Penlight	Black	White	6-1/2"	\$19.95
434-020	Stylus Penlight	Black	Blue	6-1/2"	\$20.35
434-021	Stylus Penlight	Black	Red	5"	\$20.35
434-022	Stylus Penlight	Gold	White	6-1/2"	\$23.45

New

ProPolymer® LED Flashlights

- Class I, division 1-approved
- Unbreakable polycarbonate lens
- Waterproof
- Shock-resistant



These high performance, alkaline-powered flashlights are available in a variety of sizes, power and run times to meet virtually any need or application. The ProPolymer® line is class I, division 1-approved for use in hazardous locations - unique for LED flashlights. All models are non-conductive and corrosion-proof. Push-button switching for easy, one-handed operation.

Part No.	Description	Run Time	Price
424-130	3N ProPolymer LED Flashlight	Up to 120 hours	\$22.50
424-131	4AA ProPolymer LED Flashlight	Up to 155 hours	\$34.20
424-132	3C ProPolymer LED Flashlight	Up to 336 hours	\$49.50

Vulcan Rechargeable Lantern

- Factory Mutual approved for use in hazardous locations

Lightweight and powerful, the Vulcan features a halogen bi-pin 8 watt spot bulb providing up to 50,000 candlepower. 6 volt 4.5Ah sealed lead-acid battery provides 3.1 hours continuous run time. Waterproof to 100'. Non-conductive, high-impact ABS thermoplastic housing with cushioned grip handle. Sparkless solid-state switch. Meets FM Class I, Division 2, Groups A, B, C, D temperature rating T2A and Class II, III, Division 2, Groups F, G temperature rating T3C. Includes battery, AC/DC chargers, charging rack and shoulder strap. 7.5 x 5 x 6.6". 3.3 lbs. Safety yellow.



Part No.	Description	Price
434-017	Vulcan Rechargeable Lantern	\$107.10



MAG-LITE®

Mini-Maglite® Miniature Flashlights

Beam Adjusts from Flood to Spot

These flashlights feature a unique adjustable beam that radiates from a flood to a spot completely in focus. Designed to last virtually forever, flashlights are constructed of anodized aluminum and are water and shock resistant. Three styles to choose from. Each model comes with batteries and a spare bulb located in the tail cap.

Part No.	Description	Length	Operates On	Price
191-878	Flashlight	2-1/2"	One AAA	\$10.10
127-823	Flashlight	5"	Two AAA	\$12.95
686-002	Flashlight	5-3/4"	Two AA	\$14.50



Tek-Vue Lighted Magnifier

- Fits Mini-Maglite Flashlights
- Unique design allows for detailed viewing of surface details and to the bottom of small holes to 1" deep

High-performance magnifier attachment fits Mini-Maglite flashlights (sold separately). Coaxial illumination provides wide area illumination and a bright, narrow light beam straight down, allowing clear viewing of surface details and to the bottom of small holes. 3.8x magnification. One-year manufacturer's warranty.

Part No.	Description	Price
260-100	Tek-Vue Lighted Magnifier	\$15.25

STREAMLIGHT®

Stylus®Reach™ Hi-Intensity LED Penlight

Built to Illuminate Those Unforgiving, Hard-To-Reach Areas

Finely crafted, ultra-slim penlight features a flexible cable extension, allowing for use in the tightest of spots and a hi-intensity LED "solid-state lamp" which lasts 100,000 hours and emits bright white light. Waterproof case is quality constructed of 6000-series tempered aircraft aluminum with black anodized finish. Copper core cable extension is shielded and insulated with PVC. Non-slip knurled grip. Pocket clip. Momentary and constant-on switches. Individually serialized with lifetime manufacturer's warranty. (3) AAAA alkaline batteries included.

Part No.	Description	Case Color	Length	Extended Length	Price
425-505	Stylus®Reach™ LED Penlight	Black	7"	14"	\$30.00

DeskRef

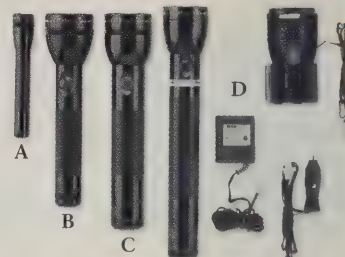
Deluxe version of the "Pocket Ref" book (described above) measures 6" x 9" and features easier-to-read larger print. 544 pages, softbound, illustrated.

Part No.	Description	Price
403-378	DeskRef	\$30.85



MAG-LITE® Flashlights

Mini-Maglite less than 6". Adjustable beam. Mini-Maglite Combo Pack includes Mini-Maglite, pocket clip, wrist strap, lens holder and red/amber/clear lenses. C and D-Cell Maglites have self-cleaning switch and White Star® krypton bulbs. Mag Charger™ System NiCad battery pack may be recharged up to 1000 times. One-hour charging time. Includes Mag Charger flashlight, charging unit, battery pack and two mounting brackets.



Part No.	Key	Description	Batteries/Included	Price
686-001	-	Mini-Maglite Combo	2 AA/Yes	\$17.85
686-002	A	Mini-Maglite	2 AA/Yes	\$14.50
686-004	B	C-Cell Mag-Lite, 2-Cell	2 C/No	\$24.45
686-006	C	D-Cell Mag-Lite, 2-Cell	2 D/No	\$27.10
686-008	D	Mag Charger System	-	\$132.00



For replacement batteries, see page 437

MAG-LITE® Mini Maglite® Accessories

Fits Mini-Maglite and other miniature flashlights. Flexible Fiber Optic Adapter provides precise illumination of the smallest areas. Cordura® Holster with belt loop provides protection and convenience. Headband turns most mini-flashlights into a headlamp. Comfortable non-elastic headband remains stable during activity.



Part No.	Description	Price
632-001	Fiber Optic Adapter, 7"	\$7.15
191-591	Fiber Optic Adapter, 20"	\$9.20
216-429	Cordura Holster	\$5.95
191-255	Headband, AA size	\$6.10

Pocket Ref 13th Edition

Hundreds of tables and charts covering the following areas are included: Chemistry and Physics, Physical Constants, Electrical, Wire Capacities, Resistance Tables, Capacitor Standard Values, RF Coil Winding Data, Decibels vs. Voltage and Power Ratios, Wiring Color Codes, Temperature Conversions, Mechanical Data, Bolt and Screw Specifications, Torque Specifications, Computers and Printers, ASCII Codes, PC Software Interrupts, Metric Conversions, Mathematics, Trig Tables, Metal Specifications, Cutting Tool Characteristics, Densities, Drill Sizes, 3200 Conversion Factors, Plus Air, Automotive, Carpentry and Construction, Welding, Hardware, Rope, Cable, Geology and Mining... and more. A detailed index speeds your access to all this information and softbound.



Part No.	Description	Price
425-348	Pocket Reference	\$15.50

Eveready Energizer® Batteries

Lithium Batteries provide longer battery life than alkalines and may be used in all 9V and AA applications.

Photo Battery is a replacement for type LR44 which is used in many compact multimeters, calculators and other instruments.

Part No.	Description	Price
473-001	Industrial Alkaline AAA	\$0.97
473-002	Industrial Alkaline AA	\$0.94
473-003	Industrial Alkaline C	\$1.55
127-771	Industrial Alkaline D	\$1.55
473-005	9V Battery	\$2.85
473-006	Lithium AA 2/pk.	\$6.65
473-007	Lithium 9V	\$9.15
182-739	Photo Battery A76BP	\$1.65
434-024	Industrial Alkaline AAAA 6/pk	\$7.10
434-026	Alkaline N 6/pk.	\$8.00



Energizer® ACCU Rechargeable™ NiMH Batteries

Recharges hundreds of times. May be recharged to full power at any time. No need to fully drain battery before recharging. Charger will charge all sizes, either NiMH or NiCd types. 115VAC charger. One-year manufacturer's charger warranty.



Part No.	Description	Price
473-009	AAA Rechargeable Batteries, 2/pk.	\$11.60
473-010	AA Rechargeable Batteries, 4/pk.	\$25.95
473-011	9V Rechargeable Batteries, 1/pk.	\$12.00
473-012	C Rechargeable Batteries, 2/pk.	\$12.00
473-013	D Rechargeable Batteries, 2/pk.	\$14.75
473-014	Battery Charger, NiMH, NiCd	\$25.45



8-Outlet Industrial-Grade Power Strip

Convenient multiple AC outlets wherever needed. Heavy-duty metal housing stands up to demanding comm-site, network, lab or factory environments. Configured to mount on walls, workbenches or inside rack enclosures. On/off switch. 15A circuit breaker. Eight NEMA 5-15R three-prong grounded outlets. 15' power cord.

Part No.	Description	Price
205-408	8 Outlet Industrial Power Strip, 24"	\$53.60

Economy Power Strip

Rugged six-outlet power strip features metal case with enamel finish. 15A circuit breaker with reset button. MOV circuit provides surge protection. 6', 14 AWG power cord. Rated 125VAC, 15A, 1875W. UL and CSA listed.

Part No.	Description	Price
502-667	6-Outlet Power Strip	\$13.75

ZTS)...

ZTS Multi-Battery Tester

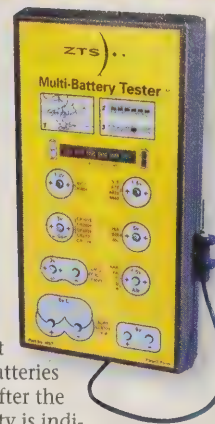
The Most Accurate and Versatile Battery Testers You Can Buy!

The ZTS Multi-Battery Tester (MBT-1) provides a comprehensive means of testing the state of charge or state of power for more than 25 battery types. This microprocessor-controlled instrument is designed to test popular primary (non-rechargeable) and rechargeable batteries using a fully automatic, high accuracy pulse load test. After the timed test cycle, percentage of remaining battery capacity is indicated on the LED bar display. Battery types are clearly labeled next to appropriate contacts. There are no switches or settings, and test results are easy to understand. Tests NiMH, Alkaline, Lithium, coin type and more. Uses 4AA batteries (not included).

Why a Pulse Load Test?

The MBT-1 computes the battery's actual remaining power capacity using a 2-second pulse load test. This pulse load simulates the real power demand that batteries experience in a high drain electronic device. So battery performance is measured, not just voltage. The MBT-1 automatically disconnects the load after two seconds, so it will not harm or drain the battery.

Part No.	Model	Description	Price
154-001	MBT-1	Multi-Battery Tester	\$60.25
473-002	EN91	AA Alkaline Battery	\$0.94



Ultra-Compact PowerVerter® Inverters

■ 12 VDC in, 120VAC 60hz out

Ultra-compact, lightweight inverter powers personal computers, camcorders, small power tools, cordless tool chargers and most small appliances and electronics. Features convenient cigarette-lighter plug. All-metal housing withstands the often rugged conditions of job sites. Low battery voltage alarm/shutdown. Includes a built-in cooling fan to prevent overheating. Stores easily in tool case, briefcase or glove box.

Part No.	Voltage	AC Output	Output Voltage	No. of Outlets	Price
420-997	12	120	375/600	2	\$72.40



STANLEY

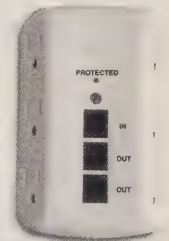
Surge Protectors

\$20,000 connected-equipment warranty. Ground and surge protection indicators. Six grounded outlets. 740-900 joule protection.

294-001 Inline model features 6' power cord, 15A circuit breaker, unused outlet lock-outs and cord management claws.

294-002 Wall mount model features phone/fax/modem protection with built-in line splitter.

Part No.	Description	Price
294-001	Surge Protector, Inline	\$15.00
294-002	Surge Protector, Wall Mount	\$11.15





RAM Cap™ w/Ratchet

Short Peak Design
Allows Great Upward Vision

- ANSI Z89.1 approved
- Molded from lightweight polyethylene

Comfortable four-point nylon suspension with Coolmax terrycloth sweatband. Universal slots for hearing, welding and faceshield accessories.



Part No.	Description	Price
155-031	White RAM Cap w/Ratchet	\$10.20
155-032	Yellow RAM Cap w/Ratchet	\$10.20
155-033	Blue, RAM Cap w/Ratchet	\$10.20

Safety Vest

New

Protect Workers and Warn Motorists

- 100% polyester, mesh vest
- Meets D.O.T. requirements for fluorescent lime
- 1-3/8" solid red reflective vertical stripes
- Black cloth binding with elastic side straps
- Hook and loop front closure
- One size fits all



Part No.	Description	Price
425-269	Lime Green Mesh Safety Vest	\$12.90

Industrial Back Support

Provides Firm and Consistent Fit

Two way stretch binding, lightweight Lycra™ powerknit. Plastic coated steel stays sewn into grip elastic pockets. 1-1/2" elastic shoulder straps, vinyl cinch pull tab. For size, measure just below navel over clothing.



Part No.	Description	Size	Price
39-100	Industrial Back Support	Small (28-32")	\$32.65
39-101	Industrial Back Support	Medium (33-38")	\$32.65
39-102	Industrial Back Support	Large (39-44")	\$32.65
39-103	Industrial Back Support	X-Large (45-49")	\$32.65



Pro Pads® Knee Pads

Help Protect Knees
From Injury and Discomfort

- High-quality medical-grade elastic
- Stitched-on swivel caps
- Extra long straps

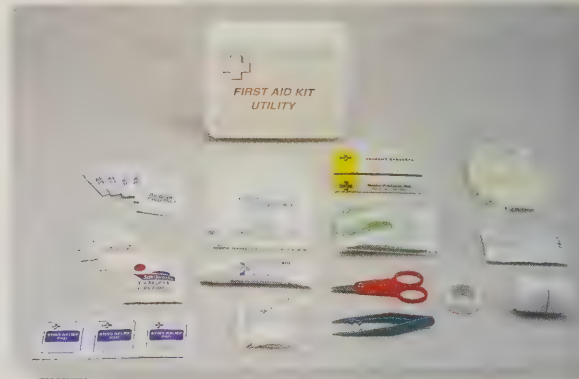


Part No.	Description	Price
51-012	Pro Pads Knee Pads, Pair	\$17.30

First Aid Kit

Perfect for Tool Kits, Glove Box, or Workstation

- Compact size 5 x 7 x 1-3/4"



First Aid Kit Contents	
16 Adhesive Strips 3/4" x 3"	1 First Aid/Burn Cream, 7/8 oz.
6 Adhesive Strips, XL	6 Alcohol Preps
4 Knuckle Bandages	3 Sting Relief Wipes
1 Gauze Bandage, 2" x 5 yd.	6 Motion Sickness Tablets
1 Sunscreen Towelette	6 Aspirin, 2/pk.
2 PVP Ointment Wipes	1 Tweezers
2 Gauze Pads, 3" x 3"	1 Scissors
1 Adhesive Tape, 1/2" x 2-1/2 yd.	1 Pair Nitrile Gloves

Part No.	Description	Price
777-689	Compact First Aid Kit	\$17.85

25 Person First Aid Kit

Great for the Office or In the Field

- Meets ANSI Z308.1 Type 1 and Type 2 requirements



Kit Contents	
1 Abdominal pad, 5" x 9" sterile	1 Eye wash 1 oz.
16 Adhesive bandages, plastic 1" x 3" sterile	6 First aid cream 1 g
6 Adhesive bandages, elastic 7/8" x 3" sterile	1 Gauze bandage 2" x 6 yards sterile
2 Adhesive bandages, fingertip 1-3/4" x 3" sterile	4 Gauze pads 3" x 3"
2 Adhesive bandages, knuckle 1-1/2" x 3" sterile	6 Hand cleansing towelettes
9 Antiseptic prep pads	1 Instruction card
12 Benzalkonium chloride antiseptic towelettes	4 Medical exam gloves
1 Cold pack, instant	1 Rubber elastic bandage 2"
1 Eye pad	6 Safety pins
	1 Scissors 4"
	1 Splinter forceps 3 -1/2"
	3 Sting Stop prep pads
	1 Tape, roll 1/2" x 5 yards
	1 Triangle bandage

Part No.	Description	Price
155-020	First Aid Kit	\$36.15

**3M™****Protective Ear Plugs**

- Hypoallergenic
- Noise reduction rating of 29dB

Expandable foam earplugs offer a tapered design that fits your ear canal for added comfort and safety.

Part No.	Description	Qty.	Price
407-299	Uncorded Ear Plugs	200 pairs	\$30.45
407-300	Corded Ear Plugs	100 pairs	\$23.60

**3M™****Protective Ear Muffs****Lightweight Design for Comfortable Fit**

- Weighs only 7.5 oz.
- Noise reduction rating of 23 dB

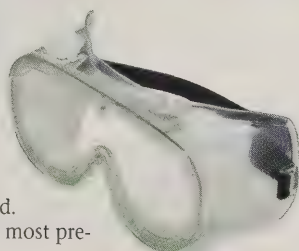
Block out harmful noise with this multi-position, large ear cup design. Offering a consistent seal around your ears with soft comfortable cushions.

Part No.	Description	Price
407-301	Protective Ear Muffs	\$13.90

**Safety Goggles**

Splash and impact resistant. Indirect vented. One-piece 0.050" polycarbonate lens. Fits over most prescription glasses. Meets ANSI Z7.1-1989.

Part No.	Description	Price
423-777	Safety Goggle	\$4.60

**CUDAS™ Safety Glasses**

- Adjustable temple
- Clear or smoke lens

Six-base lens curve and folded-back lens design provide increased peripheral vision and protection. Stylish frames made of durable, modified nylon.

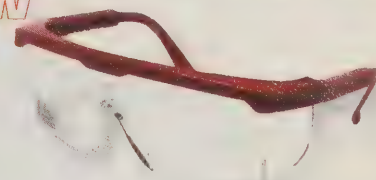
Part No.	Description	Price
155-001	Cudas w/Clear Lens	\$7.40
155-002	Cudas w/Smoke Lens	\$7.90

**Safety Glasses****Five Colored Frames to Choose From**

- Lightweight and adjustable
- 99.9% UV protective
- Scratch resistant lens
- Meet Requirements of ANSI Z87.1-1988

Contemporary design and wrap around styling features an easily adjustable temple length that locks into place for a custom fit. Choose frame color for individual preference or to color code areas. Red, black, blue, yellow and USA - (red/white/blue).

Part No.	Description	Price
424-826	Red Frame, Safety Glasses	\$3.25
405-626	Black Frame, Safety Glasses	\$3.25
424-828	Blue Frame, Safety Glasses	\$3.25
424-827	Yellow Frame, Safety Glasses	\$3.25
405-628	USA - Red/White/Blue Frame, Safety Glasses	\$3.25

**Seneca™ Safety Eyewear****Available in Clear, Smoke or Sunburst Mirror Lens**

- Meets ANSI Z87.1 and CSA Z94.3 Standards

Offers superior protection with a sleek metal lightweight frame. Adjustable nosepiece for individual secure fit.

Part No.	Description	Price
423-941	Safety Glasses w/Clear Lens	\$6.45
423-942	Safety Glasses w/Smoke Lens	\$6.65
423-943	Safety Glasses w/Sunburst Mirror Lens	\$8.25

**uvex®****Bandido™ Safety Eyewear****Lightweight and Comfortable for all Day Use**

- Meet Requirements of ANSI Z87.1-1989
- Polycarbonate Lens

Frameless design offers you excellent all around eye protection while still allowing great peripheral vision. Lens coating provides anti-fog, anti-scratch, anti-static and anti-UV properties. One size fits all.

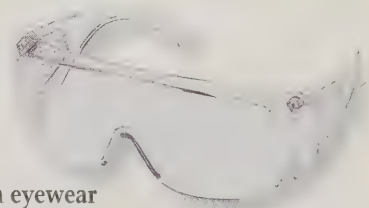
Part No.	Model	Description	Price
190-946	S1730X	Black Frame, Black Temple, Clear XTR Lens	\$7.85

**Safety Glasses****Wide Temple Guard with Side Vents**

- One size fits all
- Can be worn over prescription eyewear
- Meet Requirements of ANSI Z87.1-1989

These glasses offer a UV protective polycarbonate lens providing high impact protection. Wrap around lens offers an additional upper and lower shield and wide temple guards to eliminate splash/spray contact with eyes.

Part No.	Description	Price
130-101	Clear Safety Glasses	\$3.00



Register online to receive updates on the newest products and on the latest specials.



New

All-Purpose Leather Drivers Gloves

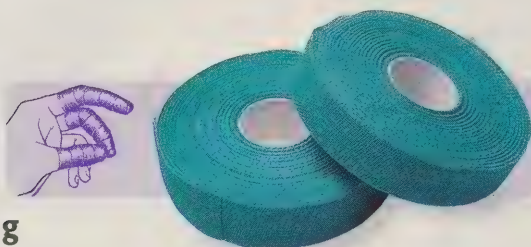
Excellent Dexterity and Abrasion Resistance

- Unlined
- Kevlar® stitched back
- Rolled leather hem

Regular-grade cowhide leather palm with Kevlar® back. Featuring a keystone thumb and split-leather back allowing superior dexterity and flexibility. Sold per pair.



Part No.	Description	Size	Price
424-836	Leather Drivers Gloves	Small	\$6.75
424-840	Leather Drivers Gloves	Medium	\$6.75
424-841	Leather Drivers Gloves	Large	\$6.75



Self-Adhering Safety Finger Tape

Protects Skin Against Rough, Sharp and Hot Surfaces

Self-adhering safety tape wraps around and molds itself to fingers, hands and wrists. Adheres only to itself, leaves no residue and is painless to remove. Contains natural latex rubber. Each roll is 3/4" wide and 90' long, and comes 16 rolls per package.

Part No.	Description	Color	Price
415-119	3/4" Safety Finger Tape	Green	\$29.85

KLEIN TOOLS

Leather Work Gloves

Comfortable and tough, seams away from wear surfaces. Elastic wrist back. Tan color.



Part No.	Description	Size	Price
37-038	Gloves	Small	\$17.10
37-039	Gloves	Medium	\$17.20
37-040	Gloves	Large	\$17.30



Leather Palm Work Gloves

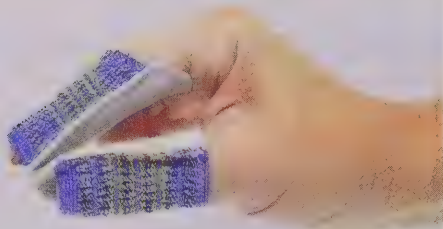
- Clute pattern with knitted cotton wrist

Abrasion-resistant full leather palms and thumb. General purpose hand protection. 12 pairs per package.

Part No.	Description	Price
125-695	Leather Palm Work Gloves	\$12.75

Split Leather Finger Cots

Leather finger cots provide protection against rough, sharp and hot surfaces. Finger cots offer a split top at finger tip, leather bottom to protect the finger and elastic back for flexibility. Available in size small, medium and large. Part No. 171-926 split leather thumb guard offered in a universal size. Both styles packaged 50 cots per bag.



Part No.	Description	Size	Price
171-914	Leather Finger Cot	Small	\$26.20
171-873	Leather Finger Cot	Medium	\$26.20
413-704	Leather Finger Cot	Large	\$26.20
171-926	Leather Thumb Guard	Universal Size	\$21.75



Cotton Canvas Work Glove

General Application Economy Protection

- Clute pattern
- Abrasion resistant
- 12 pairs per package



Part No.	Description	Price
424-873	Canvas Work Gloves	\$9.85



N-DEX® Free Nitrile Gloves

Fewer Allergic Reactions for Sensitive Skin

- Accelerator-free (non-allergenic)
- Powder-free
- Anti-Static properties

Features a patented formulation free from the accelerators common in all disposable nitrile gloves, which means fewer allergic reactions for sensitive skin. Ambidextrous, 4 mil, 0.004" thick, 9-1/2" long gloves. Packaged 100 gloves per box.



Part No.	Model	Size	Price
418-388	7705PF-06	X-Small	\$15.80
418-389	7705PF-07	Small	\$15.80
418-390	7705PF-08	Medium	\$15.80
418-391	7705PF-09	Large	\$15.80
418-392	7705PF-10	X-Large	\$15.80



Disposable Vinyl Gloves

Disposable general purpose powdered vinyl gloves. Ambidextrous 5 mil, 0.005" thick, 9" long. Packaged 50 gloves per box.

Part No.	Size	Price
125-745	Small	\$8.40
125-746	Medium	\$8.40
125-749	Large	\$8.40



Natural Latex Gloves

- Lightly powdered for easy on-and-off
- Textured for enhanced wet/dry grip

General purpose disposable gloves with great gripping wet or dry. Ideal for electronics assembly, inspection, quality control, parts handling and maintenance. 6 mil, 0.006" thick, 9" long, ambidextrous with a rolled cuff. Packaged 100 gloves/box.

Part No.	Size	Price
423-284	Small	\$7.85
423-285	Medium	\$7.85
423-286	Large	\$7.85
423-287	X-Large	\$7.85



Cotton Jersey Work Gloves

General Purpose Light Duty Protection

- Clute pattern
- Knitwrist
- Low cost, (12 pairs per package)

Part No.	Description	Size	Price
418-119	Brown Jersey Work Gloves	Ladies'	\$9.40
418-120	Brown Jersey Work Gloves	Men's	\$9.40

Nitrile Gloves

Offers a High Level of Sensitivity

- Powder Free
- Anti-static properties
- Smooth grip surface
- Class 100 compatible PVC box

Disposable gloves are ambidextrous with a beaded cuff to resist roll down. 5 mil, 0.005" thick, 10" long. Packaged 100 gloves per PVC box



Part No.	Model	Size	Price
412-434	TN101PFB	Small	\$16.75
412-435	TN102PFB	Medium	\$16.75
412-436	TN103PFB	Large	\$16.75
412-437	TN104PFB	X-Large	\$16.75



N-DEX® Nitrile Gloves

Anti-Static and Puncture-Resistant



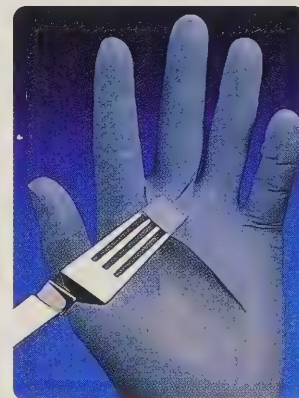
These 100% ambidextrous nitrile gloves offer amazing sensitivity and dexterity. Unique formulation reduces hand fatigue and provides greater puncture resistance than latex or vinyl of comparable thickness.

4 Mil Lightly Powdered

- Smooth grip surface

4 mil, 0.004" thick, 9-1/2" long. Packaged 100 gloves per box.

Part No.	Model	Size	Price
125-753	7005S	Small	\$15.25
125-752	7005M	Medium	\$15.25
125-751	7005L	Large	\$15.25
125-754	7005XL	X-Large	\$15.25



4 Mil Powder Free

- Class II medical device
- Smooth grip surface
- Rolled cuff

4 mil, 0.004" thick, 9-1/2" long. Packaged 100 gloves per box.

Part No.	Model	Size	Price
420-451	6005PFXS	X-Small	\$18.00
125-743	6005PFS	Small	\$18.00
125-742	6005PFM	Medium	\$18.00
125-741	6005PFL	Large	\$18.00
125-744	6005PFXL	X-Large	\$18.00



Cotton Inspection Gloves

Lightweight unhemmed cotton lisle inspection gloves protect hands from contaminants and absorbs moisture. Ambidextrous, two piece design available in three styles. 24 gloves per package.



Part No.	Size	Price
424-408	Women's	\$7.70
424-407	Men's	\$7.70
424-409	Men's Jumbo	\$8.25

Parts Handlers

Polyurethane Coated Palm and Fingers

- Low lint
- Breathable back
- Washable

Designed for parts handling in the electronics assembly, quality control, product handling and assembly areas. Offering great dexterity and finger tip sensitivity, white seamless stretchable nylon shell with a polyurethane coated palm and fingers for superior gripping. Packaged per pair.



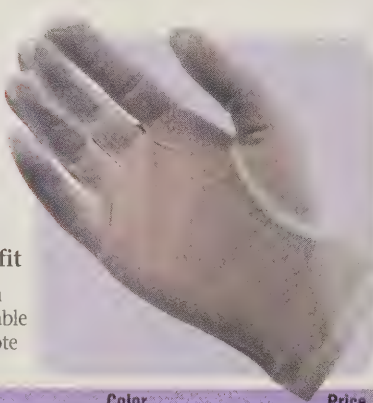
Part No.	Description	Size	Price
418-128	Parts Handlers	Small	\$4.20
418-129	Parts Handlers	Medium	\$4.20
418-130	Parts Handlers	Large	\$4.20
418-131	Parts Handlers	X-Large	\$4.20

New

Nylon Inspection Gloves

- 40 Denier tricot fabric
- Economical
- Low lint
- Set-in thumb provides tailored fit

This glove is used in many application including inspection and assembly. Available in men's or ladies sizes, (color thread denote sizes). Package 12 pairs per bag.



Part No.	Size	Color	Price
424-433	Ladies' Small	Black Hem	\$7.50
424-434	Ladies' Medium	Blue Hem	\$7.50
424-435	Ladies' Large	Pink Hem	\$7.50
424-430	Men's Medium	Red Hem	\$7.70
424-431	Men's Large	Green Hem	\$7.70
424-432	Men's X-Large	White Hem	\$7.70

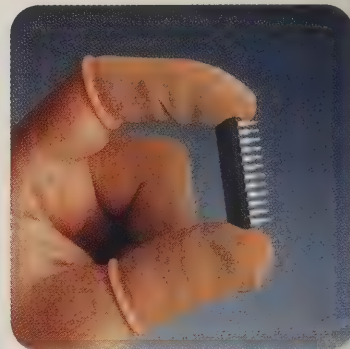


Anti-Static Latex Finger Cots

Recommended For Use with Static Sensitive Devices

- 3 mil
- Washed, powder-free
- Class 100 packaged

Finger cots offer an average surface resistance of 5×10^{12} ohms per square unit. Packaged 5 gross (720) per static shielding bag.



Part No.	Size	Price
420-861	Small	\$22.35
421-218	Medium	\$22.35
420-862	Large	\$22.35
420-863	X-Large	\$22.35



Static Dissipative Latex Finger Cots

Recommended For Use with Static Sensitive Device

- 3 mil
- Washed, powder-free
- Class 100 packaged

Static dissipative latex finger cots offer an average surface resistivity of 10^7 per square surface unit. Induced charges are dissipated in under 0.25 seconds. Packaged 5 gross (720) per doubled bagged static shielding bag.



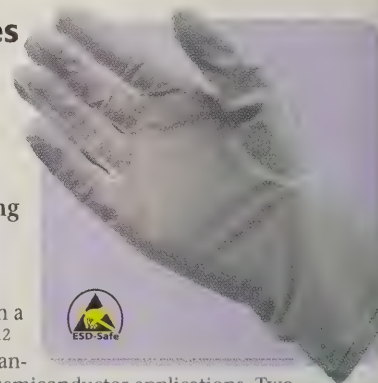
Part No.	Size	Price
420-864	Small	\$33.50
420-865	Medium	\$33.50
420-866	Large	\$33.50
420-867	X-Large	\$33.50

Anti-Static Nylon Gloves

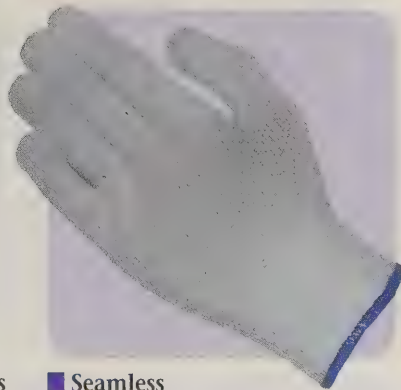
Controls Static Even After Repeated Laundering

- Lint-free
- Lightweight
- Washable
- Available with urethane coating to protect from liquids or uncoated

These gloves help reduce potential damage caused by static build up. With a volume surface resistivity of 7.92×10^{12} ohms/sq. These gloves are ideal for clean-room, electronics manufacturing and semiconductor applications. Two styles to choose from, thin urethane coated liquid barrier palm or uncoated palm. Available in ladies' or men's sizes, 12 pairs per package.



Part No.	Description	Size	Price
418-101	Urethane Coated Palm	Ladies'	\$48.35
418-102	Urethane Coated Palm	Men's	\$48.35
418-103	Ladies'	Large	\$39.80
418-104	Men's	Large	\$39.80



Nylon Knit Gloves

Full Finger or Fingerless

- Part handlers
- Glove liners
- Seamless

Stretchable 100% nylon gloves offer flexibility, dexterity and sensitivity for parts handling. 12 pairs per package.

Part No.	Description	Size	Price
418-111	Full Finger	Small	\$14.95
418-112	Full Finger	Medium	\$14.95
418-113	Full Finger	Large	\$14.95
418-114	Full Finger	X-Large	\$14.95
418-115	Fingerless	Small	\$15.95
418-116	Fingerless	Medium	\$15.95
418-117	Fingerless	Large	\$15.95
418-118	Fingerless	X-Large	\$15.95

Electrostatic Dissipative Gloves

Stretchable, Lightweight and Breathable Fabric

- Seamless knit nylon
- Low lint
- Washable

Reduce static build-up on gloves surface with a volume surface resistivity of 1.35×10^{11} ohms/sq. Constructed with a carbon/copper blended fiber with low lint nylon. 12 pairs per package.

Part No.	Description	Size	Price
418-105	Uncoated Palm	Small	\$39.90
418-106	Uncoated Palm	Medium	\$39.90
418-107	Uncoated Palm	Large	\$39.90
418-108	Uncoated Palm	X-Large	\$39.90

Electrostatic Dissipative Gloves

Non-Slip Grip Palm and Fingers For Superior Handling

- Seamless knit nylon
- Low lint
- Washable

Reduce static build-up on gloves surface with a volume surface resistivity of 1.35×10^{11} ohms/sq. Gloves are stretchable, lightweight, breathable and can be worn all day for improved performance in electronics assembly. Constructed with a carbon/copper blended fiber with low lint nylon. 12 pairs per package.

Part No.	Description	Size	Price
418-109	PVC Dotted Palm	Ladies'	\$47.80
418-110	PVC Dotted Palm	Men's	\$47.80

Static Dissipating Glove

Stretchable, One-Size-Fits-All

- Breathable knit and seam-free
- No carbon fibers
- 4 mm. male snap for grounding
- Surface resistivity $<10^4$ ohms/sq.

Continuous filament organic conductive fibers allow uniform resistivity providing static protection. Gloves are washable without loss of conductivity. Packaged per pair.

Part No.	Description	Price
126-340	Static Dissipating Glove	\$10.50
127-017	6 Foot Ground Cord	\$12.05



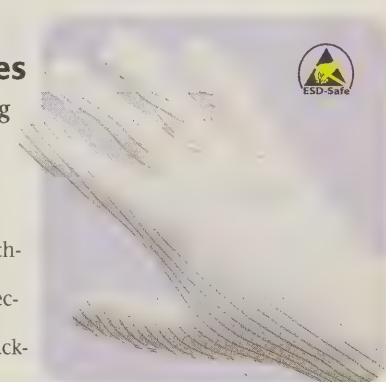
DESCO

Static Dissipating Gloves

- 4 mm male snap for grounding
- Surface resistivity $<2 \times 10^5$ ohms/square,
- Safe for use in clean rooms down to class 100

These gloves are made from a breathable, polyester base fabric with woven conductive fibers to ensure static protection. Gloves can be washed multiple times in a mild detergent and come packaged per pair.

Part No.	Size	Color Coded Hem	Price
126-920	Women's Small	Pink	\$6.50
126-919	Women's Medium	Red	\$7.75
126-918	Women's Large	Orange	\$7.75
126-923	Men's Medium	Blue	\$7.75
126-922	Men's Large	Brown	\$7.75
126-925	Men's X-Large	Grey	\$7.75
127-017	6 Foot Ground Cord	—	\$12.05



DESCO

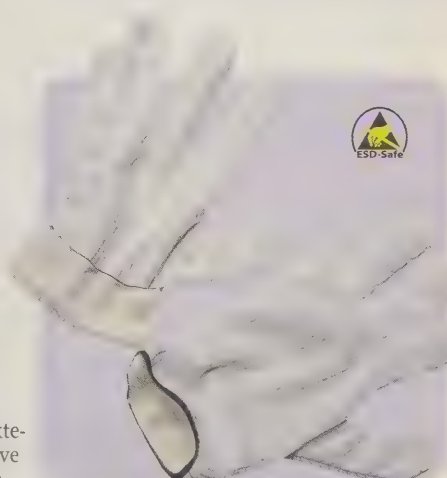
Static Dissipative Hot Gloves

Handle Objects to a Temperature of 200°F

- 4 mm male snap for grounding
- Surface resistivity $<2 \times 10^5$ ohms/sq.

Gloves feature a polyester exterior fabric with woven conductive fibers to ensure static protection. Inner lining constructed of Nomex® material for use in heat assembly processes involving temperature of 200°F maximum. Packaged per pair.

Part No.	Size	Color	Price
413-586	Small	Beige Hem	\$19.80
413-335	Medium	Blue Hem	\$19.80
413-334	Large	Brown Hem	\$19.45
127-017	6 Foot Ground Cord	—	\$12.05



GLOVES

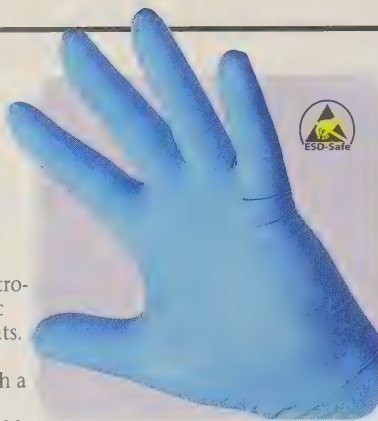


Clean Room Nitrile Gloves

- Class 100 compatible and packaged
- Powder free
- 12" long

100% nitrile gloves offer a greater puncture resistance and dissipates electrostatic charge required for the electronic industries and clean room environments. Contains no natural rubber latex and have a soft comfortable feel and fit with a high level of sensitivity. Features a beaded cuff to resist roll down. Disposable gloves are ambidextrous and come 6 mil, 0.006" thick, 12" long. Packaged 100 gloves per bag.

Part No.	Size	Price
420-881	Small	\$19.85
420-882	Medium	\$19.85
420-883	Large	\$19.85
420-884	X-Large	\$19.85

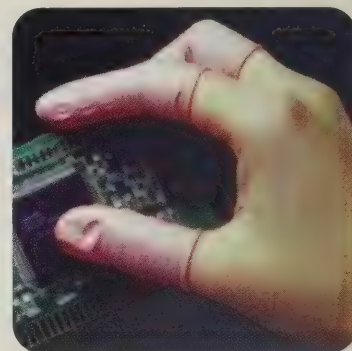


Anti-Static Finger Cots

- Class 100 processed and packaged
- Powder free

Ideal for ESD-Safe areas and clean rooms cots offer a 3 mil thickness and have a surface resistivity of 5×10^{12} ohms/sq. Packaged 10 gross (1440) per ESD-Safe polybag.

Part No.	Description	Size	Price
418-278	Anti Static Finger Cots	Small	\$24.40
418-279	Anti Static Finger Cots	Medium	\$24.40
418-280	Anti Static Finger Cots	Large	\$24.40
418-281	Anti Static Finger Cots	X-Large	\$24.40



Anti-Static Vinyl Gloves

Clean Room Compatible

- Class 100 compatible & packaged in static shielding bag
- Powder free

Anti-static vinyl gloves provide a contamination barrier and solve particulate problems in areas where clean room conditions must be maintained. Ambidextrous 5 mil, 0.005" thick, 10" long. Packaged 100 per static shielding bag.

Part No.	Size	Price
400-351	Small	\$19.20
400-349	Medium	\$19.20
400-350	Large	\$19.20
418-028	X-Large	\$19.20



New

B BOTRON



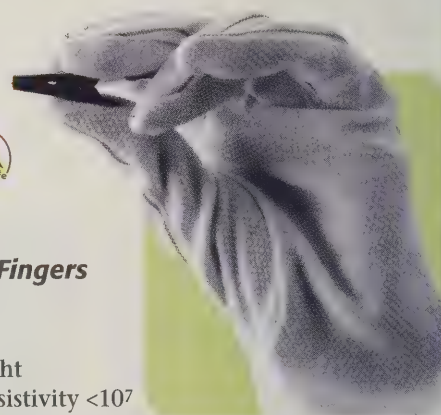
Dissipative Gloves

PVC Dotted Palm and Fingers For Superior Handling

- 9" long
- Lint-free
- Non slough
- Lightweight
- Washable
- Surface resistivity $<10^7$

Gloves feature a polyester filament with carbon fiber to reduces static build-up on gloves. Cotton lining absorb perspiration offering comfort for all day performance. 10 pairs per package.

Part No.	Description	Size	Price
425-283	Conductive Gloves with PVC Dots	Small	\$39.95
425-284	Conductive Gloves with PVC Dots	Medium	\$39.95
425-285	Conductive Gloves with PVC Dots	Large	\$39.95



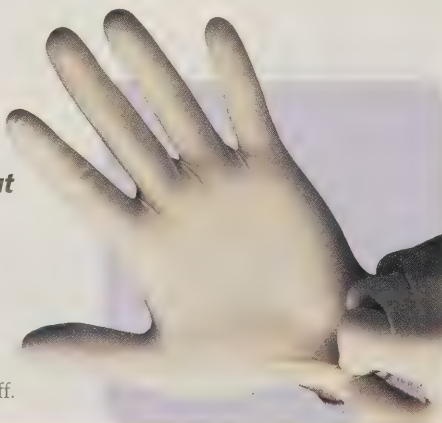
Natural Latex Gloves

Textured Grip For Great Gripping Wet or Dry

- Class 100 compatible
- Powder free

For use in electronics and clean rooms gloves are 5 mil, 0.005" thick, 9-1/2" long, ambidextrous with a beaded cuff. Packaged 100 per bag.

Part No.	Size	Price
413-556	Small	\$10.30
413-557	Medium	\$10.30
413-558	Large	\$10.30
413-559	X-Large	\$10.30



Vinyl Gloves

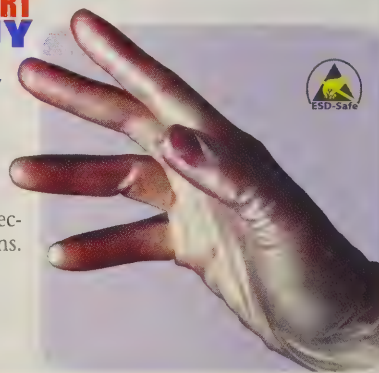


Low Static Charge and Low Particulate

- Anti-static
- Powder free
- Clean room safe

Ideal for use in clean rooms and electrostatic discharge sensitive applications. Anti-static properties up to 10^{11} ohms/cm². These gloves are ambidextrous 5 mil, 0.005" thick, 9" long and offer a smooth translucent finish. Packaged 100 per poly bag.

Part No.	Size	Price
418-123	Small	\$11.95
418-124	Medium	\$11.95
418-125	Large	\$11.95
418-126	X-Large	\$11.95





New

I.C. Antibacterial Hand Cleaner

■ Sanitizing

Neutral mildly cationic, antibacterial, antimicrobial cleaner formulated for the electronic, cleanroom and pharmaceutical environments where any contamination is unacceptable.



Part No.	Description	Price
421-951	2 oz. Bottle	\$2.60
425-257	32 oz. Bottle w/Pump	\$12.80
401-885	1 Gal. Bottle	\$29.05
127-803	Pump for 1 Gallon Bottle	\$4.95
143-892	Wall Bracket for 32 oz. Bottle	\$28.45

New

I.C. Antibacterial Hand Lotion

■ Sanitizing

■ Perfume and dye free

■ Meets requirements for class 10,000 to class 1.ION>50PPM

Antibacterial, antimicrobial non-acidic lotion helps relieve chapping and skin flaking. Enriched with aloe vera and vitamins A, D and E to help restore dry skin. Absorbs immediately into skin without interfering with grip or dexterity.



Part No.	Description	Price
417-432	1 oz. Tube	\$2.10
417-431	8 oz. Bottle	\$3.65
425-259	32 oz. Bottle w/Pump	\$12.80
425-260	1 Gal. Bottle	\$41.00
127-803	Pump for 1 Gallon Bottle	\$4.95
143-892	Wall Bracket for 32 oz. Bottle	\$28.45

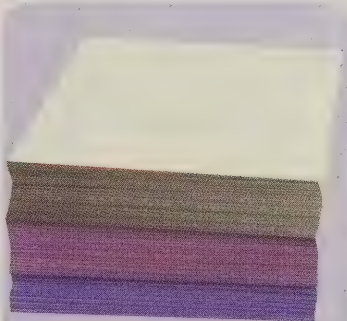
Clean Room Stationary Paper

New

Exclusively Produced for Your Clean Room Environment

- Tear resistant and durable
- Smear resistant
- Compatible with all laser, ink jet and toner based printers

Impregnated and coated with a polymer formula that obstructs particles from generating. Excellent choice for clean rooms, microelectronics, laboratories and industrial maintenance areas. Sheets measures (8-1/2" x 11"), 250 sheets per package, 10 packages/case.



Part No.	Description	Color	Price
418-277	Clean Room Paper	White	\$210.70
422-378	Clean Room Paper	Blue	\$210.70
422-379	Clean Room Paper	Pink	\$210.70
422-380	Clean Room Paper	Yellow	\$210.70
422-381	Clean Room Paper	Green	\$210.70

I.C. Lotion™ White "Clean Room Safe"

Relieve Chapping and Skin Flaking

- Non-acidic
- Greaseless
- Perfume and dye free
- Meets requirements of Class 10,000 to Class 1 cleanrooms

Enriched with aloe vera and vitamins A, D and E to help restore dry skin. Absorbs immediately into skin without interfering with grip or dexterity.



Part No.	Description	Price
401-863	8 oz. Squeeze Bottle	\$3.60
401-864	16 oz. ESD-Safe Bottle w/ Pump	\$10.30
401-865	32 oz. Bottle w/ Pump	\$13.10
401-866	1 Gal. Bottle	\$40.95
127-803	Pump for 1 Gallon Bottle	\$4.95
143-892	Wall Bracket for 32 oz. Bottle	\$28.45

* Call for Quantity Breaks.

I.C. Clean Room Facial Towelettes

Quickly Removes Cosmetics and Dirt

- Non-greasy, oil free formula
- Leaves no residues
- Formulated for all Class 10,000 to Class 1 clean rooms

Gentle facial cleanser will remove contaminating cosmetics, oils, skin flakes, dirt and mustache wax before entering your clean room. Contains no lanolin, silicones, glycerins or mineral oils. Formulated for use in all Class 10,000 to Class 1 clean rooms. 50 towelettes (12" x 12") per package.



Part No.	Description	Price
420-211	Facial Towelettes	\$18.95

I.C. Lip Balm

Protect Dry Lips

Formulated for environments where the lack of humidity will cause chapped or cracked lips. Contains no known ingredients that are harmful to the clean room environment.



Part No.	Description	Price
420-210	Lip Balm	\$2.50



Tyvek® Lab Coats

- Anti-Static
- Unisex
- Snap front
- Stand-up collar
- Elastic wrists



Disposable lab coats are durable, lightweight and flexible. Features excellent wet and dry protection from particulate matter. Tyvek® is treated with an anti-static agent to help reduce potential damage caused by static buildup. Packaged 30 per box.

Part No.	Size	Price
412-453	S	\$130.30
412-454	M	\$130.30
412-455	L	\$130.30
412-456	XL	\$130.30
419-724	2XL	\$131.35

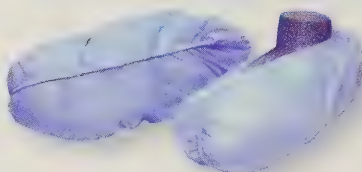


Disposable Shoe Covers

Control the Amount of Contamination Entering a Restricted Area

- Regular or skid free sole
- Universal & x-large sizes

Low density polyethylene shoe covers offer splash protection and are lint-free. Available in blue or white. Packaged 300 per case.



Part No.	Description	Color	Size	Price
418-121	Regular Sole	Blue	Universal	\$30.30
418-122	Regular Sole	Blue	XL	\$32.75
418-135	Regular Sole	White	Universal	\$30.30
418-136	Regular Sole	White	XL	\$32.75
423-256	Skid Free Sole	Blue	Universal	\$40.00
423-258	Skid Free Sole	Blue	XL	\$41.25
423-257	Skid Free Sole	White	Universal	\$40.00
423-259	Skid Free Sole	White	XL	\$41.25

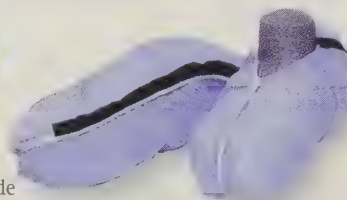
Disposable Conductive Shoe Cover

Available with Regular or Skid-Free Sole



- Universal size

Shoe covers are made from blue polypropylene and feature a non-woven conductive carbon strip. Place ribbon inside shoe under heel to dissipate static buildup. Packaged 300 per case.



Part No.	Description	Color	Price
418-132	Regular Sole	Blue	\$52.95
420-800	Skid-Free Sole	Blue	\$67.00

Bouffant Caps

Ideal for Cleanroom and Industrial Applications Where Hair Must Be Contained

Made of spunbonded polypropylene. Available in blue or white and in two sizes (21" and 24"). Packaged 100 per bag.



Part No.	Description	Size	Color	Price
418-137	Bouffant Cap	21"	White	\$5.75
418-138	Bouffant Cap	21"	Blue	\$5.75
418-139	Bouffant Cap	24"	White	\$6.15
418-140	Bouffant Cap	24"	Blue	\$6.15

Disposable Beard Covers

Easy to Breath Through

Made from white spunbonded polypropylene with a soft thread covered elastic that fits comfortably around your ears/head. 500 per case.



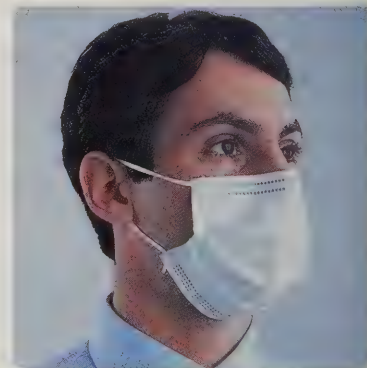
Part No.	Description	Color	Price
424-839	Beard Covers, 500/Case	White	\$26.65

Face Masks

Meets the Demands of Clean Rooms and Industrial Environments

- Latex free
- Soft ear loops

Made from blue polypropylene, providing easy breathability with an enclosed forming nose piece. Packaged 50 per box.



Part No.	Description	Color	Price
418-141	Face Mask	Blue	\$7.65



**For Cleanroom Swabs and Wipes
See Pages 464-468**



FirstStep™ Tacky Entrance Mats

Reduce the Level of Contaminants Into Your Clean Room

- Low-profile
- Available in white or blue
- 60 peelable sheets per mat, 4 mats/case

Mats capture dirt and dust particles from foot-traffic, equipment wheels or anything that contacts its surface before getting tracked into your clean room. Remove up to 94.73% of particles at the .30 micron size with the first two steps upon the mat. Each sheet corner offers a pull tab which is numbered consecutively to ensure removal of one layer at a time.

Part No.	Description	Size	Color	Price
420-288	Tacky Mat	18" x 36"	White	\$92.50
420-289	Tacky Mat	18" x 36"	Blue	\$89.10
420-290	Tacky Mat	25" x 45"	White	\$214.60
420-291	Tacky Mat	25" x 45"	Blue	\$214.60



CleanStep™ Tacky Mat with Frame

Holds Securely on Carpeting, Tile or Concrete Flooring

- Available with white or gray mat
- Reusable white frame.

Mat measures (24" W x 30" L), consist of 60 layers of non-transferring adhesive-coated film mounted on a reusable hard plastic white frame measures (25.5" W x 32.5" L), with a non skid backing to hold securely on carpeting, tile or concrete. Place in entrance ways and when the exposed layer is completely soiled simply peel it off from the corner pull tab to expose a clean layer. Replacement mats packaged 4 mats per case.

Part No.	Description	Color	Price
418-142	Reusable Frame w/60 Layer Mat	White	\$68.30
418-143	Reusable Frame w/60 Layer Mat	Gray	\$68.30
418-144	Replacement 60 Layer Mat, 4 Mats/Case	White	\$145.20
418-145	Replacement 60 Layer Mat, 4 Mats/Case	Gray	\$145.20



Tacky Adhesive Entrance Mats

Trap Dirt, Dust and Debris

- Straight-edge
- 30 peelable sheets per mat, 4 mats/case

Mats feature a tacky peelable surface that traps dirt, dust and debris normally carried by shoes. Ideal for any areas where cleanliness is important such as medical labs, electronic assembly areas, and clean rooms. Mats offer 30 numbered peelable sheets, 4 mats/case.

Part No.	Description	Size	Color	Price
423-167	Tacky Mat	18" x 45"	Blue	\$115.00
423-168	Tacky Mat	36" x 36"	Blue	\$180.00

New



Apron & Sleeves

Light Weight and Durable Material

- Breathable material (SMS)
- Apron with overhead strap and tie waist
- Sleeves with elastic wrist and arm
- Treated fabric with anti-static agent

Apron and sleeves offer a 3-layer protective material (SMS) for situations where dry particulate barrier and repellency are needed. Worker comfort is increased from this lightweight, soft and breathable spunbonded meltblown spunbonded fabric. It offers improved strength, splash and particulate resistance against many workplace hazards.

Part No.	Description	Size	Price
425-266	White Apron, 100/Case	28" x 36"	\$71.00
425-267	White Sleeves, 200/Case	18"	\$55.50



New



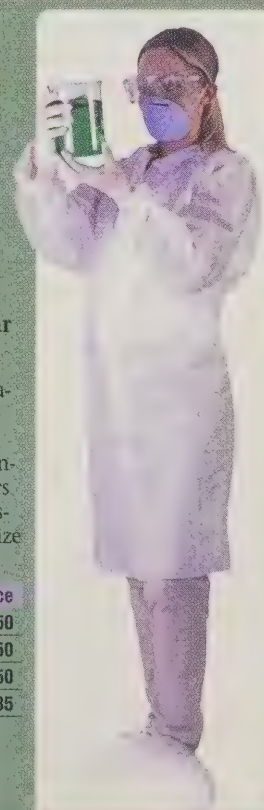
Lab Coat

Protect Clothing Against Water Based Liquids and Light Chemical Splash

- Breathable material (SMS)
- Elastic wrist
- Mandarin collar
- Treated fabric with anti-static agent

This 3-layer material is ideal for many situations where dry particulate barrier and repellency are needed. Worker comfort is increased from this lightweight, soft and breathable spunbonded meltblown spunbonded fabric. It offers improved strength, splash and particulate resistance against many workplace hazards. Each size packaged 30 per case.

Part No.	Description	Size	Price
425-262	White Lab Coat	M	\$65.50
425-263	White Lab Coat	L	\$65.50
425-264	White Lab Coat	XL	\$65.50
425-265	White Lab Coat	2XL	\$68.85





Ozone-Safe TAK-PAK™ PCB Assembly and Repair Kits

Bonds Wire and Components to Board

■ Environmentally-safe accelerators

Cures instantly with environmentally friendly accelerator maintaining proven performance levels without ozone-depleting chemicals. Choose from two kits. Tak Pak Kit Part No. 121-315 for temperatures up to 180°F, has a viscosity of 600 cp. and includes 20cc of adhesive and a 1.75 oz. bottle of accelerator. Ultra Performance Tak Pak Part No. 121-316 for high temperature (223°F), high viscosity (5000 cp.) adhesive, that withstands severe thermal cycling and bake-in process steps, and includes 20cc of adhesive and 0.7 oz. metered aerosol accelerator.

Part No.	Model	Description	Price
121-315	20419	Ozone-Safe Kit	\$25.29
121-225	12292	Tak Pak 444 Adhesive 20cc	\$15.11
121-316	20420	Ozone-Safe, Ultra Performance Kit	\$38.49
121-396	38240	Ultra Performance 382 Adhesive 20cc	\$20.97

Ozone-Safe Tak-Pak™ Accelerator

Speeds the Fixture and Cure Time of Loctite's Cyanoacrylate Adhesives

■ Contains no CFCs

■ Three types: (spray, brush, or drop and dries in seconds)

Three types to choose from: Type 712 isopropanol-based accelerator that will whiten the exterior bondline of the adhesive for easy inspection and will not crack polycarbonate. Type 7452 acetone-based accelerator that will not whiten the bondline. Type 7109 perfluorocarbon-based accelerator that is non-flammable, ODC-free, and contains no regulated VOCs or California Prop 65 materials. Will not whiten the bondline.



Part No.	Type	Model	Size	Price
121-287	712	18636	.7 oz. aerosol	\$13.26
121-314	712	20352	1.75 oz. bottle	\$7.99
121-270	712	18390	1 gallon	\$77.98
121-288	7452	18637	.7 oz. aerosol	\$13.26
121-279	7452	18490	1.75 oz. bottle	\$7.06
121-285	7452	18580	1.75 oz. pump	\$7.42
121-283	7452	18575	1 quart	\$42.02
121-284	7452	18576	1 gallon	\$61.48
401-229	7109	22440	1.75 oz. bottle	\$41.98



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.

ASSURE™ Surface Curing Threadlocker

Locking Fasteners on Plastic and Metal Parts

■ Low-strength, fast-cure

Can be post-applied and is recommended for nylon, polyester, and other plastic surfaces. Viscosity: 60 cp. Temperature range: -65° to +180° F. Store refrigerated for maximum shelf life.

Part No.	Model	Description	Price
121-428	42540	20 gram	\$19.27



Retaining Compounds

Increase Shear Strength of Cylindrical Assemblies Up to Six Times

When assembling press and slip-fitted parts these compounds fill the "inner" space between components and cure to form a strong, precision assembly.

609 General Purpose Retaining Compound

Low viscosity (125 cp.), rapid curing liquid fits from zero gap to 0.005" diametral clearance and fixtures in ten minutes on unprimed steel, providing a shear strength of 3000 psi.

Part No.	Model	Size	Price
121-482	60921	10 ml. Bottle	\$12.00
121-483	60931	50 ml. Bottle	\$33.33

620 High Temperature Retaining Compound

High viscosity (7000 cp.) liquid fixtures in thirty minutes and provides shear strength of 3000 psi on steel. Temperature range: -65°F to 450°F. Gap fill (diametral) to 0.015".

Part No.	Model	Size	Price
121-487	62040	50 ml. Bottle	\$38.71

680 High Strength Retaining Compound

Medium viscosity (1250 cp.), fast curing liquid fixtures in ten minutes and provides shear strength of 4000 psi on steel. Fills gaps to 0.015" diametral.

Part No.	Model	Size	Price
121-494	68035	50 ml. Bottle	\$38.71

Hand Pumps

Converts Bottle into Portable Dispenser

■ Leak-free dispensing at any angle

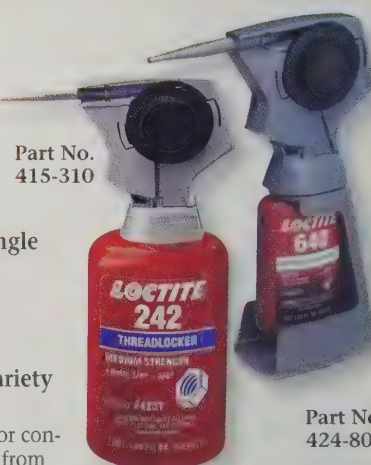
■ Mounts easily on any 50 ml or 250 ml bottle

■ Set screw allows adjustment of drop size

■ Applicator nozzle accepts a variety of dispensing needles

Adjustable dispense knob allows for controlled consistent dispensing of shots from 0.01 to 0.40 ml with viscosities up to 30,000 cP.

Part No.	Model	Description	Price
424-805	98414	50 ml Hand Pump	\$85.00
415-310	97001	250 ml Hand Pump	\$86.70



Part No.
415-310

Part No.
424-805



ThreadLocking Adhesive and Sealants

Locks Fasteners Yet Can Be Easily Removed

- Will not migrate
- Cures without cracking or shrinkage
- Resists lubricants, solvents and most chemicals
- Meets MIL-Spec, MIL-S-46163A

Threadlockers available in a wide range of viscosity and strength to meet any application. Protects fasteners against vibration, loosening, leakage and thread corrosion. Locks, seals, and retains nuts, bolts, screws, fittings and assemblies - yet removable with hand tools.



Part No.	Type	Model	Size	Price
121-322	222	22221	10 ml.	\$12.00
121-323	222	22231	50 ml.	\$33.33
121-328	242	24221	10 ml.	\$12.00
191-840	242	24231	50 ml.	\$33.33
121-331	262	26221	10 ml.	\$12.00
121-332	262	26231	50 ml.	\$33.33
121-335	271	27121	10 ml.	\$12.00
121-336	271	27131	50 ml.	\$33.33
121-346	290	29021	10 ml.	\$12.00
121-347	290	29031	50 ml.	\$33.33

Treadlocker Specifications

Type	Use	Strength	Viscosity cP	Torque (in-lbs.) Break/Prevail	Color
222	Small Screws	Low	1200/5000	53/30	Purple
242	Up to 3/4" Bolts	Medium/Removable	1200/6000	110/43	Blue
262	Up to 3/4" Bolts	Permanent	1800/5000	190/275	Red
271	Up to 1" Fasteners	High	500	230/320	Red
290	Preassembled Parts	Wicking Grade	12	85/250	Green

PST® 561

Pipe Sealant Stick with Teflon®

Seal Metal Tapered Pipe Threads and Fittings to NPT Specs

- Immediate low pressure sealing to 100 psi
- Controlled lubricity prevents galling
- Protects from rust and corrosion
- Will not contaminate or clogs lines
- Eases disassembly
- Withstands temperatures of (-65°F to 300°F)



Part No.	Type	Model	Description	Size	Price
423-212	561	37127	Pipe Sealant	19 Gram Stick	\$11.20

Silver Grade

Anti-Seize Lubricant Stick

Smooth Texture For Fine Threads or Closely Mated Parts

- Protects metal parts in high heat environments up to 1600°F
- Prevents rust, corrosion, seizing and eases disassembly
- Reduces friction and wear to critical parts

Silver grade anti-seize lubricant designed for heavy-duty extreme cold or high-temperatures to permit easy disassembly of assemblies.



Part No.	Model	Description	Size	Price
423-214	37230	Silver Grade Anti-Seize	20 Gram Stick	\$5.00

C5-A® Copper Anti-Seize Stick

Buttery Texture Ideal for Both Coarse and Fine Threads

- Protects metal parts in high heat environments up to 1800°F
- Prevents rust, corrosion, seizing and eases disassembly
- Reduces friction and wear to critical parts

Copper based anti-seized provides a shield against high temperature seizing and galling. For use on copper, brass, cast iron and steel. All alloys including stainless steel, plastics and all non-metallic gasketing materials. Meets MIL-PRF-907E galling & seizing test.



Part No.	Model	Description	Size	Price
423-213	37229	Copper Anti-Seize	20 Gram Stick	\$5.00

Thread Treatment Sticks

Convenient Self-Feeding Applicator

- Five formulas to choose from
- Fits in your pocket or tool box
- No leaks, drips or spills
- Solid formula: great for overhead use



Application Tips: Threadlocking, completely fill the root of the threads at the area of engagement. Threadsealing, 360° coverage is recommended. Advance stick only as deep as the threads you are applying to.

248 Medium Strength Threadlocker Stick

Removable with Hand Tools

- Eliminates loosening from vibration, shock and thermal expansion
- Prevents rust & corrosion while sealing and protection threads
- Torque (in-lbs.) Break (138) / Prevail (40)

Ideal for all nut and bolt applications especially fasteners between 1/4" to 3/4".



Part No.	Type	Model	Description	Size	Price
423-208	248	37684	Blue Threadlocker	9 Gram Stick	\$11.88
423-209	248	37087	Blue Threadlocker	19 Gram Stick	\$25.08

268 High Strength Threadlocker Stick

Removable with Heat Gun and Hand Tools

- Easy to apply without the mess and waste
- Eliminates loosening from vibration, shock and thermal expansion
- Torque (in-lbs.) Break (360) / Prevail (33)

Ideal for heavy-duty applications to prevent loosening of threaded fasteners.



Part No.	Type	Model	Description	Size	Price
423-210	268	37685	Red Threadlocker	9 Gram Stick	\$11.88
423-211	268	37686	Red Threadlocker	19 Gram Stick	\$25.08



Prism™ Instant Adhesives

**Provides the Strongest
Bond on Hard-To-Bond
Surfaces**

Bond hard-to-bond and porous surfaces parts that have to withstand the punishment of high-impact and shock and parts that must be aesthetically perfect. Applied directly from the container, adhesives set in seconds to bond strengths up to 3500 psi.

Surface-Insensitive Applications

Bonds many difficult-to-bond surfaces including: cardboard, foam, cork, plastics, soft and hard wood, all metals (even freshly painted and treated surfaces), high-to-low-durometer rubbers, and leather. Temperature range is -65° to 180°.

Part No.	Model	Size	Price
121-405	406 (40640)	20 gram Bottle	\$19.07
121-398	401 (40140)	20 gram Bottle	\$19.07
121-434	447 (44740)	20 gram Bottle	\$19.07
121-444	454 (45440)	20 gram Tube	\$20.38

Surface-Insensitive Adhesive Specifications				
Type	Fills Gap Up To	Curing Time	Viscosity	Color
406	0.004"	0-20 sec.	20 CPS	Clear
401	0.005"	0-20 sec.	100 CPS	Clear
447	0.007"	0-20 sec.	600 CPS	Clear
454	0.010"	15-90 min.	Gel	Clear

Toughened Applications

Bonds with higher impact resistance and greater peel strength than conventional, brittle cyanoacrylate. Temperature range is -65° to 250°F.

Part No.	Model	Size	Price
121-415	411 (41145)	20 gram Bottle	\$20.97
121-412	410 (41045)	20 gram Bottle	\$20.97

Toughened Adhesive Specifications				
Type	Fills Gap Up To	Curing Time	Viscosity	Color
411	0.008"	50-70 sec.	5,000 CPS	Clear
410	0.008"	2-3 min.	3,500 CPS	Black

Odorless, Cosmetically-Sensitive Applications

Bonds without fumes or odors than traditional instant adhesives. Won't frost or bloom on parts that must look perfect, such as polished surfaces and optics. Temperature range is -65° to 160°F.

Part No.	Model	Size	Price
121-407	408 (40840)	20 gram Bottle	\$21.45
121-446	460 (46040)	20 gram Bottle	\$21.45
121-400	403 (40340)	20 gram Bottle	\$21.45

Odorless Cosmetically-Sensitive Adhesive Specifications				
Type	Fills Gap Up To	Curing Time	Viscosity	Color
408	0.002"	30-60 sec.	5 CPS	Clear
460	0.004"	30-60 sec.	50 CPS	Clear
403	0.008"	60-90 sec.	1000 CPS	Clear



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shipable by air. These products are not returnable or refundable. Please call if you require specific information.

Super Bonder® Clear Instant Adhesives

**Bond Rubber, Metal,
Plastics and Other
Smooth-Surface
Materials**

- Plastic applicator dispenser with no-clog tip
- Temperature range (-65° to 180°F)

Apply directly from container set in seconds at room temperature to bond strengths up to 3500 psi. Store refrigerated for maximum shelf life.

General-Purpose Applications

- Sets in 20 to 40 seconds
- Meets MIL-SPEC: MIL-A-46050 (Type II, Class I)

Part No.	Model	Fills Gaps Up to	Viscosity	Size	Price
121-454	49550	0.004"	45 cp.	1 oz. Bottle	\$18.58
121-456	49595	0.004"	45 cp.	0.7 oz. Pen	\$3.88

Plastic And Vinyl Applications

- Sets in less than 5 seconds
- Meets MIL-SPEC: MIL-A-46050 (Type II, Class II)

Part No.	Model	Fills Gaps Up to	Viscosity	Size	Price
121-418	41450	0.006"	0.006"	1 oz. Bottle	\$20.24

Metal Bonding Applications

- Sets in 15 seconds
- Meets MIL-SPEC: MIL-A-46050 (Type I, Class II)

Part No.	Model	Fills Gaps Up to	Viscosity	Size	Price
121-420	41550	0.004"	75 cp.	1 oz. Bottle	\$18.91

Gap-Filling Applications

- Sets in 20 to 30 seconds
- Meets MIL-SPEC: MIL-A-46050 (Type II, Class III)

Part No.	Model	Fills Gaps Up to	Viscosity	Size	Price
191-844	41650	0.008"	1500 cp.	1 oz. Bottle	\$18.58
121-426	42250	0.015"	2500 cp.	1 oz. Bottle	\$18.58

Penetrating Applications

- Sets in 15 to 30 seconds

Part No.	Model	Up to	Viscosity	Size	Price
121-424	42050	0.002"	2 cp.	1 oz. Bottle	\$18.58

Adhesive Clean-Up Solvent

- Dissolves cured adhesives quickly and easily

Part No.	Model	Description	Price
121-520	76820	Brush-Top Bottle, 2 oz.	\$24.02



380 Black Max™ Tough Instant Adhesive

Bonds Metal, Rubber and Plastics

- Black opaque color for easy inspection
- Viscosity 200 cp.

Excellent resistance to peel and cleavage loading, stresses caused by thermal shock. Cures at room temperature within minutes offering a continuous service temperature range of -65° to +220°F. Store refrigerated for maximum shelf life.

Part No.	Model	Viscosity	Size	Price
121-394	38050	200 cp.	1 oz. Bottle	\$26.86





Instant Bonding Adhesives

Wide Range of Viscosities for Specific Bonding Requirements

- Single component
- Solvent resistance
- Service temperature range (-114° to +185° F)
- Meets MIL-A-46050C and CID-A-A-3097

Instant bonder cyanoacrylate adhesives provide exceptional tensile shear strengths within seconds at room temperature. Materials such as metals, plastics, rubber and glass may be bonded with these single part adhesives. Store refrigerated for maximum shelf life.

General Purpose

- Fast cure
- High strength
- Low viscosity
- Bonds rubber, metal, plastics
- Close fitting parts

Part No.	Fills Gaps Up to	Viscosity	Size	Price
423-588	.003"	45 (cps)	1 oz. Bottle	\$15.00

Penetrating

- Fast cure
- High strength
- Low viscosity
- Penetrating for post applications
- Wicking 360° circumference

Part No.	Fills Gaps Up to	Viscosity	Size	Price
423-590	.002"	5 (cps)	1 oz. Bottle	\$15.95

Instant Bonder

Tack and Bond Wires and Components

- Fast cure
- Gap fill (.006")
- Medium viscosity (cps) 600

Use on wire tacking, bounding components, tacking down lifted pads and other related electronic assembly and repair needs. Adhesive cures instantly with accelerator maintaining proven performance levels.

Part No.	Description	Size	Price
423-599	Instant Bonder	20 gm Bottle	\$15.00
423-594	Accelerator	1.75 oz. Bottle	\$6.95

Plastic Bonder

- Fast cure
- Weather resistant
- Medium viscosity
- Compensates for irregularities

Part No.	Fills Gaps Up to	Viscosity	Size	Price
423-589	.004"	100 (cps)	1 oz. Bottle	\$15.00

Vertical Surface Applications

- All surfaces
- No-run

Permits application without product migration and bonding through larger gaps and porous surfaces with the aid of an accelerator (Part No.423-594).

Part No.	Fills Gaps Up to	Viscosity	Size	Price
423-591	.015"	50,000 (cps)	20 gm Tube	\$13.60

Hi-Impact Black Instant Adhesive

- Good shock/impact resistance
- Very Hi Viscosity
- Temperature Range (-114° to +210° F)

Gap filling and porous substrate bonding can be improved with the aid of an accelerator (Part No.423-594).

Part No.	Fills Gaps Up to	Viscosity	Size	Price
423-592	.012"	3500 (cps)	20 gm Bottle	\$22.30



ThreadLocking Adhesives and Sealants

Locks Fasteners - Yet Can Be Easily Removed

- Reduce product assembly cost
- Prevent part loosening
- Cures without cracking or shrinkage
- Eliminate fluid leakage
- Meets Military Specifications MIL-S-22473, MIL-S-46163 and ASTM 5363

Protects fasteners against vibration, loosening, leakage, and thread corrosion. Locks, seals, and retains nuts, bolts, screws, fittings, and assemblies. Will not migrate and resists lubricants, solvents, and most chemicals.



Part No.	Type	Size	Price
423-575	T22	10 ml	\$10.00
423-576	T22	50 ml	\$27.70
423-577	T42	10 ml	\$10.00
423-578	T42	50 ml	\$27.70
423-579	T62	10 ml	\$10.00
423-580	T62	50 ml	\$27.70
423-581	T70	10 ml	\$10.00
423-582	T70	50 ml	\$27.70
423-583	S90	10 ml	\$10.00
423-584	S90	50 ml	\$27.70

Type	Application	Strength	Viscosity (cps at 12rpm)	Torque (in. lbs.) Breakaway/Prevailing	Temp. Limit (°F)	Gap Filling (in. max.)	Color
T22	Holds Small Nuts and Screws	Low/Adjustable	1200	50/30	350	.005	Purple
T42	Locks Nuts and Screws	Medium/Removable	1800	150/50	350	.006	Blue
T62	Lock Studs, Nuts and Bolts	High	2000	200/110	350	.008	Red
T70	Lock Studs to 1/2" Diameter	High/Permanent	500	300/285	450	.008	Red
S90	Ideal for Adjustment Screws	Penetrating - Wicking	20	100/200	350	.004	Green

732 RTV Silicone Sealant

Cures Rapidly to a Strong, Durable, Flexible Rubber at Room Temperature

- Fill gaps to .125"
- Chemicals and fluids resistant
- Interior or exterior use
- Meets federal and military specifications

Bonds to metals, glass, most plastics, fabric, wood, ceramics etc. Part No. 423-597 meets requirements of critical assembly industries by providing a non-volatile product that is non-corrosive to metals and oxygen sensor safe.

Part No.	Description	Color	Size	Price
423-595	RTV Silicone	Clear	3 oz. Tube	\$3.75
423-596	RTV Silicone	Clear	10.3 oz. Cartridge	\$7.65
423-597	RTV Neutral Cure Silicone	Clear	10.3 oz. Cartridge	\$11.00



ADHESIVES



LOCTITE
Products for Medical Grade Applications

- USP Class VI certified
- ISO 10993
- Designed for disposable medical devices
- Withstands EtO, gamma radiation, electron beam, or one cycle of autoclave sterilization

Loctite manufactures a wide variety of USP Class VI certified adhesives and sealants. Available in varying viscosities, they offer single component convenience and cure in seconds.

Hysol® Urethane Adhesive

Part No.	Model	Viscosity	Size	Price
419-273	30673	3,800 cp.	50 ml. Dual Cartridge	\$9.49

Flashcure™ Light Cure Cyanoacrylates

Part No.	Model	Viscosity	Size	Price
415-792	32254	20 cp.	1 oz. Bottle	\$47.28
415-793	32268	900 cp.	1 oz. Bottle	\$47.28

Cyanoacrylate Adhesives

Part No.	Model	Viscosity	Size	Price
402-819	18680	100 cp.	20 gram Bottle	\$21.59
400-478	20268	500 cp.	20 gram Bottle	\$14.83
400-479	20269	3 cp.	20 gram Bottle	\$14.83



7701 Primer for Bonding Plastics

Part No.	Model	Size	Price
402-574	19886	1.75 oz. Bottle	\$13.18

Light Curable Acrylic Adhesives

Part No.	Model	Viscosity	Size	Price
130-078	19736	300 cp.	25 ml. Syringe	\$31.17
130-077	19727	4,000 cp.	25 ml. Syringe	\$31.17

5248 Specialty Silicone

Part No.	Model	Viscosity	Size	Price
409-926	19987	50,000 cp.	300 ml. Cartridge	\$75.36

LOCTITE

Light Curing Adhesives

- Improved durability
- Clear bond lines
- Hard, tack-free surfaces

These solvent-free, single-component products cure in 30 seconds or less using UV light sources ranging from low to high intensity. All offer excellent environmental resistance, clear bond lines and hard, tack-free surfaces.



Part No.	Model	Type	Size	Price
121-366	34931	349 Acrylic	50 ml. Bottle	\$22.17
121-368	35241	352 Acrylic	50 ml. Bottle	\$14.68
419-278	23695	3105 Acrylic	25 ml. Syringe	\$26.22
418-257	23679	3106 Acrylic	25 ml. Syringe	\$26.22
409-923	29505	3175 Acrylic	25 ml. Syringe	\$23.81
409-925	30288	3335 Epoxy	25 ml. Syringe	\$31.45
419-279	30765	3494 Acrylic	25 ml. Syringe	\$26.22
415-342	30756	3526 Acrylic	25 ml. Syringe	\$26.22
121-256	17614	5088 Silicone	300 ml. Cartridge	\$60.63
121-250	17412	5091 Silicone	300 ml. Cartridge	\$60.63

Permabond

Super Adhesives

Finger Pressure Bonds Materials Together in Seconds

- Produce bond strengths up to 4000 psi
- Ready to use straight from the bottle

Strong bond in seconds at room temperature on plastics, rubber, metal, glass - practically all materials. Ozone Safe accelerator Part No. 401-898 increase gap-filling particularly with woods and porous materials.



Permabond 101 (Ethyl)

Viscosity 2-3 CPS. Wicks into cracks and crevices. Setting time 3 to 15 seconds. Meets MIL Spec: MIL-A-46050C (Type II, Class 1).

Part No.	Model	Size	Price
121-211	101-1	1 oz.	\$16.40

Permabond 910 (Methyl)

Viscosity 75-125 CPS. Setting time 5 to 30 seconds. Meets MIL Spec: MIL-A-46050C (Type I, Class 2).

Part No.	Model	Size	Price
121-542	910-1	1 oz.	\$15.10

Permabond 200 (Ethyl)

High viscosity: 1300-1700 CPS. Setting time 20 to 60 seconds. Meets MIL Spec: MIL-A-46050C (Type II, Class 3).

Part No.	Model	Size	Price
121-306	200-1	1 oz.	\$15.75

Ozone Safe Permabond Accelerator

Can be used with all Permabond instant adhesives to increase gap-filling properties.

Part No.	Model	Size	Price
401-898	QFS16-4	4 oz. Pump Spray	\$14.10



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.



Hysol® Two-Part Urethane Adhesives

Have High Impact Resistance and Highly Flexible Bonds

These two-part urethane adhesives cure at room temperature. They feature large gap fill, low temperature performance, long term UV resistance, and high oil and solvent resistance.



E-60HP High Strength Toughened Epoxy

- Off-white color
- High peel/high shear
- Shear strength (psi.) 3000-5000
- 60 minute worklife

Part No.	Type	Size	Price
407-841	29319	50 ml. Dual Cartridge	\$10.79

E-00CL Fast Setting Epoxy

- Clear color
- Flowable
- Low odor
- Shear strength (psi.) 2000-4000
- 5 minute worklife

Part No.	Type	Size	Price
407-835	29289	50 ml. Dual Cartridge	\$10.79

E-05CL Toughened Epoxy

- Ultra-clear color
- High peel
- Low odor
- Shear strength (psi.) 2000-4000
- 5 minute worklife

Part No.	Type	Size	Price
407-837	29299	50 ml. Dual Cartridge	\$11.40

E-120HP Ultra-Strength Epoxy

- Amber color
- Non-sag
- Aerospace grade
- Shear strength (psi.) 3000-6000
- 120 minute worklife

Part No.	Type	Size	Price
407-846	29353	50 ml. Dual Cartridge	\$10.79

E-20NS Metal Bonding Epoxy

- Light tan color
- Non-sag
- High peel/high shear
- Shear strength (psi.) 2000-4000
- 20 minute worklife

Part No.	Type	Size	Price
407-842	29334	50 ml. Dual Cartridge	\$10.79

E-40FL Toughened Epoxy

- Grey color
- Impact resistant
- Flexible
- Shear strength (psi.) 1000-3000
- 40 minute worklife

Part No.	Type	Size	Price
407-838	29304	50 ml. Dual Cartridge	\$10.79

E-30CL Glass Bonding Epoxy

- Ultra-clear color
- Impact resistant
- Low viscosity
- Shear strength (psi.) 2000-4000
- 30 minute worklife

Part No.	Type	Size	Price
407-843	29329	50 ml. Dual Cartridge	\$10.79

E-20HP High Strength Toughened Epoxy

- Off-white color
- High peel/high shear
- Shear strength (psi.) 3000-5000
- 20 minute worklife

Part No.	Type	Size	Price
407-840	29314	50 ml. Dual Cartridge	\$10.79

E-00NS Non-Sag Epoxy

- Translucent color
- Controlled flow
- Low odor
- Shear strength (psi.) 2000-4000
- 5 minute worklife

Part No.	Type	Size	Price
407-836	29294	50 ml. Dual Cartridge	\$10.79

PST® 567 Pipe Sealant

End costly Teflon® tape leaks

- Allows easy assembly and prevents galling
- Excellent for high pressure applications to 10,000 psi.

Locks and seals metal, tapered pipe threads and fittings. Ideal for stainless steel, aluminum, galvanized metal and other inert metals. Not recommended for use on plastic piping or in pure oxygen and/or oxygen rich systems.



Part No.	Model	Description	Price
121-469	56747	PST Pipe Sealant, 50 ml.	\$17.35

Manual Dispensing Gun

For Use with 50 ml. Double Barrel Cartridges

Comes with two different plungers allowing gun to be used with either 1:1 or 2:1 ratio cartridges. Disposable plastic nozzles (sold separately) attach to double barrel cartridges. Adhesive is automatically mixed as it travels through the nozzle. 6.3mm (ID) stepped end.

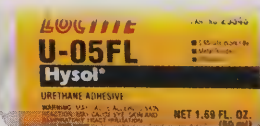


Part No.	Type	Description	Price
415-260	983531	Dispensing Gun for 50 ml. Mix Cartridges	\$35.70
407-848	983441	50 ml. Dual Nozzles Pkg/10	\$6.75

Hysol® Two-Part Epoxy And Urethane Adhesives

For A Wide Range of Structural Bonding Applications

These two-part epoxies cure at room temperature. Features large gap fill, good shear and peel strength, thermal stability, chemical resistance, low shrinkage, easy manual dispensing and low cost.



U-05FL Metal Bonder

- Off-white color
- Highly flexible
- High peel/high shear
- Shear strength (psi.) 1000-3000
- 5 minute worklife

Part No.	Type	Size	Price
407-844	29348	50 ml. Dual Cartridge	\$11.29

U-10FL Plastic Bonder

- Ultra-clear color
- Highly flexible
- High peel
- Shear strength (psi.) 500-2000
- 10 Minute worklife

Part No.	Type	Size	Price
407-845	29343	50 ml. Dual Cartridge	\$13.42

Hysol® Two-Part Potting Compound

For Encapsulation and Protection of Critical Components

- E-60NC Epoxy Potting Compound
- Black opaque color
- Non-corrosive to electrical components
- Low viscosity
- Shear strength (psi.) 1000-3000
- 60 minute worklife

This potting compound is a flowable, two-part epoxy that cures at room temperature.



Part No.	Type	Size	Price
407-839	29324	50 ml. Dual Cartridge	\$9.68



Applications Guide for Chipbonder® Surface Mount Adhesives

Product	Application/Description	Process Method	Dot Profile	Cure Time	Color
348	General purpose syringe dispense. Suitable for syringe dispense applications requiring a high dot profile. Good Green Strength. Excellent adhesion to most board and chip materials.	Medium Speed Syringe Dispensing 18,000 DPH capable.	Peaked	90 sec @ 150°C	Red/Yellow
3609	For high speed dot placement. Good green strength. Red for best vision pickup on light surfaces. Particularly suited where high speed, high dot profile, high wet strength and high electrical specifications are required.	High Speed Syringe Dispensing 40,000+ DPH capable. Jettable.	Peaked	90 sec @ 150°C	Red
3615	Formulated specifically for difficult to bond components. Low moisture pickup. Ideal for Archimedes and piston pump dispense systems.	Medium Speed Syringe Dispensing 18,000 DPH capable.	Peaked	60-90 sec @ 150°C	Red
3619	Low temperature curing adhesive designed for high speed syringe dispense. Particularly suited where low curing temperatures are required for heat sensitive components, or short curing times.	High Speed Syringe Dispensing 40,000+ DPH capable.	Peaked	90 sec @ 150°C	Red
3621	Designed for high speed syringe dispense. Excellent green strength. Improved humidity resistance.	Very High Speed Syringe Dispensing 47,000 DPH capable.	Rounded	90 sec @ 150°C	Red

Chipbonder® Surface Mount Adhesives

Maintains Component Positioning During Wave Solder Process

- High speed dispense
- Low temperature cure
- No stringing

Loctite Chipbonder surface mount adhesives (SMAs) maintain component positioning on printed circuit boards during wave solder and solder reflow processes.

Chipbonder 348

- High Dot profile reaches components with large standoff

Chipbonder 348 is a very fast curing, one component epoxy resin, shear thinning adhesive. It is suitable for applications requiring a high dot profile.

Part No.	Model	Description	Price
130-043	17723	Chipbonder 348, 10 ml, STD Syringe	\$21.32
130-048	18656	Chipbonder 348, 30 ml, STD Syringe	\$62.40

Chipbonder 3609

- High wet strength

Chipbonder 3609 is a one component, epoxy adhesive which cures rapidly on exposure to heat. High shear thinning viscosity characteristic and de-aerated condition makes it suitable for very high speed SMT dispensing.

Part No.	Model	Description	Price
402-800	20236	Chipbonder 3609, 10 ml, STD Syringe	\$44.95
401-186	20235	Chipbonder 3609, 30 ml, STD Syringe	\$68.95
400-496	19873	Chipbonder 3609, 30 ml, Fuji Syringe	\$104.95

Chipbonder 3615

- For Archimedes and piston pump dispense systems

Chipbonder 3615 is a one component, epoxy resin adhesive which cures rapidly on exposure to heat. Moisture tolerant offering a good adhesion to low stress type moulding compounds.

Part No.	Model	Description	Price
411-611	28565	Chipbonder 3615, 10 ml, STD Syringe	\$39.14
411-612	28568	Chipbonder 3615, 30 ml, STD Syringe	\$90.92

Chipbonder 3619

- For heat sensitive components

Chipbonder 3619 is a one component, epoxy adhesive which cures rapidly on exposure to low levels of heat.

Part No.	Model	Description	Price
411-617	30816	Chipbonder 3619, 10 ml, STD Syringe	\$39.22
411-618	30817	Chipbonder 3619, 20 ml, Panasert Syringe	\$52.75
411-619	30819	Chipbonder 3619, 30 ml, STD Syringe	\$91.11



Chipbonder 3621

- For high speed dispense speeds greater than 35,000 dots per hour

Chipbonder 3621 is a one component, epoxy adhesive which cures rapidly on exposure to heat. Its viscosity characteristics and de-aerated condition make it suitable for syringe dispensing with excellent drop shape control.

Part No.	Model	Description	Price
411-620	30846	Chipbonder 3621, 10 ml, STD Syringe	\$15.20
411-621	30848	Chipbonder 3621, 20 ml, Panasert	\$21.40
411-622	30849	Chipbonder 3621, 30 ml, Fuji Syringe	\$28.30

7360 Adhesive Clean Up Solvent

Will Not Cause Adhesive to Gel

- Ozone-safe
- Compatible with all SMT processes
- Will not initiate cure of surface mount adhesives
- Clean needles, valves, stencils and PCBs by spray or static/ultrasonic bath

This cleaner is formulated to clean and remove epoxy-based adhesives. Ideal for cleaning high-speed syringe and stencil printing adhesive systems that must be kept clean to maintain consistent production yields and quality. Low volatility of 7360 allows it to remain on the part to allow thorough removal of adhesive residues. Note: uncured adhesive should be mechanically removed before putting items in bath and then thoroughly dried.

Part No.	Model	Description	Price
402-809	25658	Adhesive Cleaner, 500ml Can	\$41.07





Applications Guide for Thermally Conductive Adhesives

Product	Applications/Description	Cure/Chemistry	Specific Gravity	Viscosity	Cure Schedules	Fixture Full Cure	Modulus	Tg °C	CTE PPM/°C	Thermal Conductivity
315	Self-shimming for electrical isolation; room temperature curing adhesive.	1 component Activator Acrylic	1.7	Paste Blue	5 min. @ 20°C 4-24 hr. @ 20°C		390,000 psi	—	69	0.80 W/m-k
383	High strength, room temperature curing adhesive for permanent assemblies.	1 component Activator Acrylic	1.5	Paste Gray	5 min. @ 20°C 4-24 hr. @ 20°C		233,000 psi	—	710	0.60 W/m-k
384	Repairable, room temperature curing adhesive utilized for parts subject to disassembly.	1 component Activator Acrylic	1.6	Paste White	5 min. @ 20°C 4-24 hr. @ 20°C		400,000 psi	—	110	0.76 W/m-k
3873	Self-shimming, fast cure adhesive for bonding heat generating devices.	1 component UV/Heat Cure Acrylic/Activator cure	2.1	Paste Gray	5 min. @ 20°C 4-24 hr. @ 20°C		400,000 psi	-	110	1.65 W/m°C

Thermally Conductive Adhesives

Eliminate Mechanical Fasteners While Providing Efficient Thermal Transfer

- One component adhesives
- High thermal conductivity
- Excellent heat dissipation

Loctite thermally conductive adhesives eliminate the need for mechanical fasteners and clips while providing the most efficient thermal transfer between transistors or microprocessors and their heat sinks.

Output™ 315

- Self shimming
- Activator curing

Designed for bonding electrical components to heat sinks with a controlled insulating gap. Self-shimming feature produces a consistent 5-6 mil gap between bonded components providing electrical isolation while maintaining thermal conductivity. 500 volt limit in high pot applications. Use activator Output 7387.

Part No.	Model	Description	Price
130-054	31520	Output 315, 25 ml. Syringe	\$21.11
411-625	31575	Output 315, 300 ml. Cartridge	\$121.76

Output™ 383

- High strength
- Activator curing

Designed for bonding transformers, transistors and other heat generating components to PCB's or heat sinks. High strength of output 383 provides structural strength to electronic assemblies. 500 volt limit in high pot applications. Use activator Output 7387.

Part No.	Model	Description	Price
121-318	21086	Output High-Strength Kit	\$21.12
121-228	12991	Output 383, 300 ml. Cartridge	\$102.58

Output™ 384

- Controlled strength
- Activator curing

Designed for bonding transformers, transistors and other heat generating components to PCB's or heat sinks. Controlled strength of Output 384 permits field and service repairs. 500 volt limit in high pot applications. Use activator Output 7387.

Part No.	Model	Description	Price
411-626	20286	Output 384, 25 ml. EFD	\$18.36
121-319	21087	Output Repairable Kit	\$22.64
121-238	17041	Output 384, 300 ml. Cartridge	\$112.75

Output™ 3873

- Self shimming
- High modulus
- Activator curing

3873 is a primer curing acrylic based thermally conductive adhesive. Contains glass beads for 5-6 mil shimming characteristics. Cures rapidly to form a high strength, high modulus thermoset acrylic polymer. Use activator Output 7387.

Part No.	Model	Description	Price
411-634	29822	3873, 25 ml. Syringe	\$32.95
411-635	29823	3873, 300 ml. Cartridge	\$134.77



Output™ 7387 Activator

- Brush-top-bottle

Output 7387 Activator is a solvent based activator designed for use with Loctite Output thermally conductive adhesives. Output Activator is required for proper curing of Output adhesives.

Part No.	Model	Description	Price
121-313	20263	Activator (13 ml.)	\$12.98



Not quite sure which product bests suits your needs?
Call Technical Support at 1-888-866-5487.

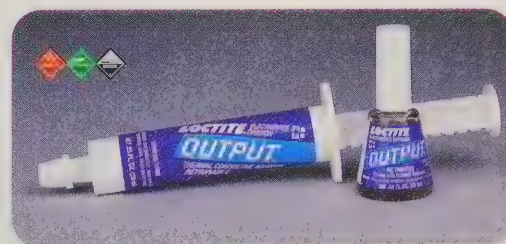
OUTPUT™ Ozone-Safe Thermally Conductive Adhesive Kits

Ideal for Heat Dissipation Applications

- Ozone-Safe

Designed for bonding thermally sensitive components to heat sinks or printed circuit boards, provide excellent heat dissipation and cure in a few minutes after being activated. Two kits to choose from. Output Repairable Kit allows removal of components for repair or replacement. Output High-Strength Kit provides structural strength for permanent mounting. Both kits include 25 ml. of adhesive in a dispensing syringe and a 13 ml. brush-top bottle of activator. Store refrigerated for maximum shelf life.

Part No.	Model	Description	Price
121-319	21087	Output Repairable Kit	\$22.64
121-241	17099	Output 384, 25 ml. Syringe	\$16.08
121-318	21086	Output High-Strength Kit	\$21.12
121-240	17098	Output 383 High-Strength Adhesive, Syringe 25 ml.	\$14.61
121-313	20263	Activator (13 ml.)	\$12.98



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.



Two-Part Epoxy Adhesives

Two Formulas to Choose From

Part No. 121-232 offers a rapid-curing general purpose adhesive/encapsulant (5 minutes or less), for bonding metal, ceramic, wood, concrete or glass in any combination. Part No. 121-233 offers a extremely strong medium-cure water resistant bond and can also be used for potting electronic components and assemblies. Both packaged in 2.5 oz. self-metering double-barreled syringe with snap open cap.



Part No.	Working Time	Cure Time	Tensile Shear PSI	Price
121-232	3-6 min.	1 hr	1,400	\$4.68
121-233	8-12 min.	2 hrs	2,250	\$5.25

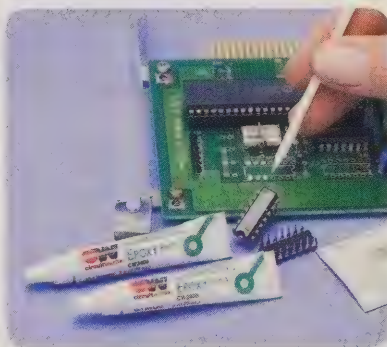


Conductive Epoxy Kit

Flexible and Highly Moisture and Chemical Resistant

- Solderless connections
- Electrically conductive
- Thermally conductive

Bonds to a wide variety of materials including solder alloys, aluminum, alumina, glass, copper, epoxy laminates and many plastics. Fully cured bond has a lap shear strength of >882 lbs. and a shore hardness of >70. Features an easy mix ratio of 1 to 1 and an 8-10 minute pot life. Cures in 5-10 minutes at 150°F. Room temperature cured at or above 75°F (25°C) in 4 hours. Kit includes 0.25 oz. epoxy, reusable applicator and instructions.



Part No.	Description	Price
121-326	Conductive Epoxy Kit	\$20.90

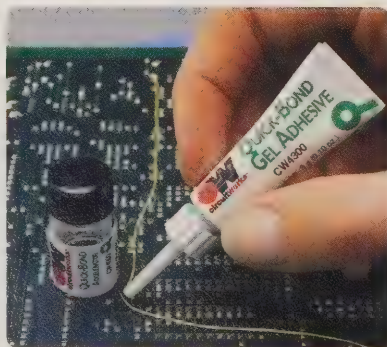


Quick-Bond Gel Adhesive Kit

Instantly Bonds Rubber, Metal and Plastic

- Meets MIL-SPEC: MIL-A-46050C (Type II, Class 4)

This cyanoacrylate gel provides a superior bond on a wide range of materials. Adhesive is a nonmigrating gel that stays in place when applied, even across gaps. Excellent resistance to impact, aging, thermal cycling and weathering. Setting time with accelerator is instant and has a bonding strength up to 3770 psi. Operating temperature range of -65°F to 200°F (-54°C to 93°C) and is clear in color.



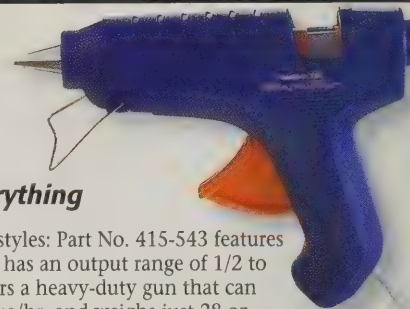
Part No.	Model	Description	Price
408-474	CW4300	Gel Adhesive Kit	\$8.10

THERMOGRIP

Hot-Melt Glue Guns and Sticks

Bond Just About Everything

Glue guns available in to styles: Part No. 415-543 features two temperature settings and has an output range of 1/2 to 1lb./hr. Part No. 121-584 offers a heavy-duty gun that can deliver more than 4 lbs. of glue/hr. and weighs just 28 oz.



Part No.	Description	Size	Price
415-543	Light Duty Glue Gun	-	\$30.95
121-584	Heavy-Duty Glue Gun	-	\$164.85
412-132	General Purpose Glue Stick (Clear) 4oz. Bag, 12,000 cp.	4" x .50" dia. Stick	\$3.00
121-491	All-Purpose Glue Stick (Off White) 4oz. Bag, 40,000 cp.	4" x .50" dia. Stick	\$4.05

LOCTITE

Dispensing Gun and Hot Melt Adhesive Superstick™

Ergonomic User-Friendly Design

- Delivers up to 1 lbs./hour
- Viscosity: 11,000 cp.
- Medium setting, tough and flexible
- 15 second open time
- 153°F temperature resistance
- EVA-based
- Color: clear



Part No.	Model	Description	Size	Price
419-292	98029	Adhesive Dispensing Gun	-	\$24.00
419-290	83244	232™ Hysol® Adhesive Sticks, 5 oz. Bag	10" x .50" dia. Stick	\$5.01
419-291	83245	232™ Hysol® Adhesive Sticks, 25 lb. Box	10" x .50" dia. Stick	\$160.22

LOCTITE

RTV Silicone Adhesive/Sealants

Withstands High Joint Movement Requirements

- Gap fill (.250")
- Low volatility
- Excellent fluid resistance
- Low odor
- Highly flexible
- 300 ml. cartridge



Part No.	Model	Description	Type	Color	Price
407-242	20166	5900 Heavy Body Silicone	High Adhesion, Instant Seal	Black	\$28.14
121-286	18581	5699 High Performance Silicone	Oil/Water Resistant	Grey	\$28.14

Red GLPT Insulating Varnish

Used For Tamper-Proofing

- Dry to touch (30 minutes)
- Hard dry (4-8 hours)
- For temperatures up to 250°F (121°C)

Alkyd-based compound is resistant to environmental extremes including oils, water and most acids and alkalis. Ideal for tamper-proofing, general insulation of coils, transformers, motor windings and for protection against oxidation and atmospheric attacks.



Part No.	Description	Price
127-344	Red GLPT Insulating Varnish, 2 oz. Bottle	\$6.80



LOCTITE

LiteTak™ Light Curing Adhesives

Suited For Wire-Tacking, Coil Terminating, Component Encapsulating and Mounting

- Three types to choose from
- Low-intensity UV curing
- Temperature range (-65° to +250°F)

Cures to a tough, resilient bonding polymer in less than 30 seconds with safe, low-intensity UV lamp systems (365nm wave length). Faster cure times are achieved when higher intensity light sources are used. Part No. **190-814 & 400-320** is specially engineered for wire tacking and coil terminating. Part No. **190-816 & 400-318** has a versatile formulation for potting applications. Part No. **190-818 & 400-319** is the best choice for coating and sealing assemblies.

Part No.	Model	Strength	Viscosity	Size	Price
190-814	21357	Low	7000 cp.	25 ml. Syringe	\$23.34
400-320	21358	Low	7000 cp.	1 Liter Bottle	\$213.35
190-816	21362	High	4000 cp.	25 ml. Syringe	\$23.81
400-318	21363	High	4000 cp.	1 Liter Bottle	\$213.35
190-818	21359	High	2000 cp.	25 ml. Syringe	\$23.81
400-319	21360	High	2000 cp.	1 Liter Bottle	\$213.35



For an expanded selection of Adhesives and Dispensers visit contacteast.com or jensentools.com



GE Silicones

One Part RTV Silicone Adhesives, Sealants

Require No Mixing, Uses Atmospheric Moisture or Heat to Cure

- Offers primerless adhesion to many substrates

One-part products can be precisely dispensed with automated or manual equipment as formed in place gaskets, sealants, structural adhesives or protective coatings.

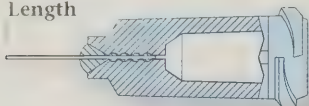
Use	Electronics Grade, Room Temperature Cure, Non-Corrosive				Specialty Silicone	
Model	RTV160	RTV162	RTV167	RTV167	RTV133	RTV133
Typical Application	Totally non-corrosive, use as a thin section	Totally non-corrosive, PCB coating bond capacitors, resistors, seal PCB's, seal exposed wires	Highest strength sealant. Mechanical or electrical bonding and insulating			High temperature paste adhesive sealants, encapsulate and seal heating elements
Viscosity/Consistency	380 cp.	Spreadable Paste	Spreadable Paste			Paste
Tack Free Time	4 Hours	4 Hours	4 Hours			4 Hours
Approvals	UL94 HB	MIL-A-46146, UL94 HB	MIL-A-46146, UL94 HB			UL94 V-0
Color	White	White	Gray			Black
Packaging	10.1 oz. Cartridge	10.1 oz. Cartridge	2.8 oz Tube	10.1 oz. Cartridge	2.8 oz Tube	10.1 oz. Cartridge
Part No.	415-833	415-559	162-720	415-834	162-719	415-808
Price	\$39.00	\$20.75	\$9.10	\$57.30	\$21.00	\$36.80

Use	Specialty Silicones		High Performance			
Model	RTV106	RTV116	RTV103	RTV108	RTV108	RTV108
Viscosity	Flowable	Paste	Paste			Paste
Tack Free Time	20 Minutes	20 Minutes	20 Minutes			20 Minutes
Cure	Acetoxo	Acetoxo	Acetoxo			Acetoxo
Approvals	FDA, MIL-A-46106	MIL-A-47040	MIL-A-46106, MIL-S-47162, MIL-S-14112, FDA, USDA			
Color	Red	Red	Black			Translucent
Packaging	10.1 oz Cartridge	10.3 oz Tube	10.1 oz Cartridge	2.8 oz Tube	10.1 oz Cartridge	2.8 oz Tube
Part No.	415-778	415-779	415-782	425-428	415-390	415-737
Price	\$36.45	\$39.75	\$5.95	\$3.70	\$9.50	\$3.45

DISPENSERS

Techcon
SYSTEMS

Length



TE Series Stainless Steel Dispensing Needles

**UV Adhesive Assembly
For Increased Pull Strength**

- Luer lock hubs ■ Blunt ends
- Color coded hubs

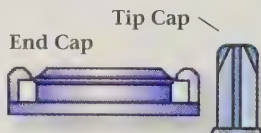
Tips feature burr free electro polished cannula for consistent material flow. Luer lock polypropylene hubs provide easy attachment to barrel reservoir. Packaged 50 needles per box.

Part No.	Model	Gauge	Color	Length	Price
415-303	TE714050PK	14	Olive	1/2"	\$15.00
425-223	TE714100PK	14	Olive	1"	\$19.00
425-224	TE714150PK	14	Olive	1-1/2"	\$22.00
415-301	TE715050PK	15	Amber	1/2"	\$15.00
425-225	TE715100PK	15	Amber	1"	\$19.00
425-226	TE715150PK	15	Amber	1-1/2"	\$22.00
415-299	TE718050PK	18	Green	1/2"	\$15.00
425-227	TE718100PK	18	Green	1"	\$19.00
425-228	TE718150PK	18	Green	1-1/2"	\$22.00
415-297	TE720050PK	20	Pink	1/2"	\$15.00
425-229	TE720100PK	20	Pink	1"	\$19.00
425-230	TE720150PK	20	Pink	1-1/2"	\$22.00
415-295	TE721050PK	21	Purple	1/2"	\$15.00
425-231	TE721100PK	21	Purple	1"	\$19.00
425-232	TE721150PK	21	Purple	1-1/2"	\$22.00
415-293	TE722050PK	22	Blue	1/2"	\$15.00
425-233	TE722100PK	22	Blue	1"	\$19.00
425-234	TE722150PK	22	Blue	1-1/2"	\$22.00
415-291	TE723050PK	23	Orange	1/2"	\$15.00
425-235	TE723100PK	23	Orange	1"	\$19.00
425-236	TE723150PK	23	Orange	1-1/2"	\$22.00
415-288	TE725050PK	25	Red	1/2"	\$15.00
415-289	TE725100PK	25	Red	1"	\$19.00
425-237	TE725150PK	25	Red	1-1/2"	\$22.00
415-286	TE727050PK	27	Clear	1/2"	\$15.00
425-238	TE727100PK	27	Clear	1"	\$19.00
425-239	TE727150PK	27	Clear	1-1/2"	\$22.00
415-281	TE730205PK	32	Yellow	1/4"	\$15.00
415-284	TE730050PK	30	Lavender	1/2"	\$15.00

700 System Barrel Caps

Caps seal barrel to protect UV materials as well as to prevent contamination and premature curing. End caps snap-on. Packaged 50 caps per box.

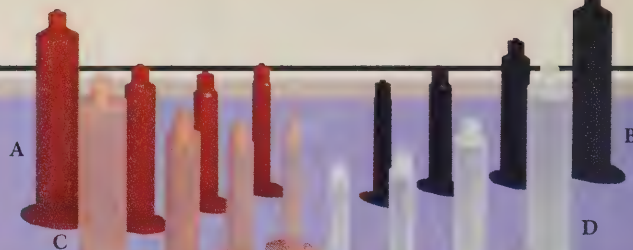
Part No.	Model	Description	Price
415-277	703000CRPK	End Cap, 3 cc	\$8.25
415-278	705000CRPK	End Cap, 5 cc	\$10.00
415-279	710000CRPK	End Cap, 10 cc	\$11.75
415-392	730000CRPK	End Cap, 30 cc	\$15.00
415-395	700015LLNPK	Tip Cap, Natural	\$3.50
415-396	700015LLBPK	Tip Cap, Black	\$3.95



700 System Polyethylene Air Powered Pistons

These premium low friction wiper pistons have full lip seal security and are suitable for use with all materials. Come 50 per package.

Part No.	Model	Description	Price
415-271	7030009WPK	Wiper Piston, 3 cc, White	\$5.35
415-272	7050009WPK	Wiper Piston, 5 cc, White	\$8.00
415-273	7100009WPK	Wiper Piston, 10 cc, White	\$11.00
415-386	7300009WPK	Wiper Piston, 30 cc, White	\$18.50



(A) 700 System Dark Amber Color Barrels

Block UV and all visible light

Blocks UV light to 254nm and all visible light but with the ability to see inside the barrel. Luer lock style. Sold in boxes of 50 pcs.

Part No.	Model	Capacity	Price
415-246	7030LL1DPK	3 cc	\$14.65
415-247	7050LL1DPK	5 cc	\$16.10
415-248	7100LL1DPK	10 cc	\$18.25
415-249	7300LL1DPK	30 cc	\$24.15

(C) 700 System Lite Amber Color Barrel

Blocks UV Light

Blocks UV light to 254nm and screens up to 406nm with the advantage of a translucent barrel. Luer lock style. Sold in boxes of 50 pcs.

Part No.	Model	Capacity	Price
415-242	7030LL1APK	3 cc	\$33.60
415-243	7050LL1APK	5 cc	\$21.17
415-244	7100LL1APK	10 cc	\$25.50
415-245	7300LL1APK	30 cc	\$33.10



(B) 700 System Carbon Free Black Barrels

Blocks UV and is Carbon Free

Block UV's to 254nm and all visible light to 520nm for light sensitive materials. Luer lock hubs. Sold in boxes of 50 pcs.

Part No.	Model	Capacity	Price
415-250	7030LL1BPK	3 cc	\$14.65
415-251	7050LL1BPK	5 cc	\$16.10
415-252	7100LL1BPK	10 cc	\$18.25

(D) 700 System Natural Color Barrels

Natural color lets the user see the materials inside the barrel. Luer lock hubs. Sold in boxes of 50 pcs.

Part No.	Model	Capacity	Price
415-238	7030LL1NPK	3 cc	\$13.30
415-239	7050LL1NPK	5 cc	\$14.65
415-240	7100LL1NPK	10 cc	\$16.65
415-241	7300LL1NPK	30 cc	\$22.00

Needle Dispensing Kit

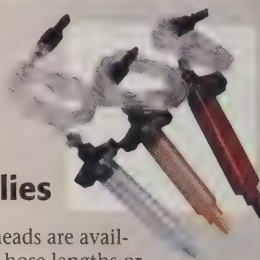
Wide assortment of Techcon Systems most popular needles stored in a handy 2 level storage case with reference sheets.

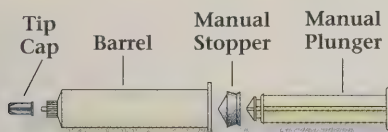
Part No.	Model	Description	Price
423-527	TN00DKIT	Needle Dispensing Kit	\$46.25

700 System Standard Receiver Head Assemblies

Standard Receiver heads are available with 6 ft. and 3 ft. hose lengths or without the air hose for users who prefer to customize their own hose lengths.

Part No.	Model	Description	Price
415-444	70303RHB	3 cc, 3 ft. Hose	\$16.25
415-445	70306RHB	3 cc, 6 ft. Hose	\$17.25
415-447	70503RHB	5 cc, 3 ft. Hose	\$16.25
415-448	70506RHB	5 cc, 6 ft. Hose	\$17.25
415-450	71003RHB	10 cc, 3 ft. Hose	\$16.25
415-451	71006RHB	10 cc, 6 ft. Hose	\$17.25
415-453	73003RHB	30 cc, 3 ft. Hose	\$16.25
415-454	73006RHB	30 cc, 6 ft. Hose	\$17.25



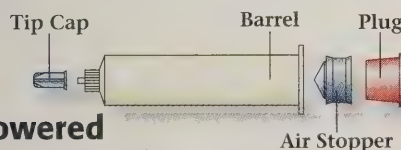


Manual Syringe Assemblies

■ Disposable

Include: luer lok syringe barrel, stopper, manual plunger and tip cap. Barrels, manual plungers and tip caps are polypropylene. Stoppers are polyethylene and lock onto plunger for smooth controlled manual dispensing.

Part No.	Model	Capacity	QTY	Price
403-295	OKM6-20	6 cc	20	\$18.95
403-296	OKM10-15	10 cc	15	\$18.25
403-297	OKM35-10	35 cc	10	\$18.75



Air Powered Syringe Assembly

■ Disposable

Include: luer lok syringe barrel, stopper, tip cap and plug. Barrels and tip caps are polypropylene. Stoppers and plugs are polyethylene. Stopper cleanly empties the barrel and assists in the efficiency of dispensing fluids.

Part No.	Model	Capacity	QTY	Price
403-292	OKA6-20	6 cc	20	\$20.40
403-293	OKA10-15	10 cc	15	\$20.35
403-294	OKA35-10	35 cc	10	\$19.45

700 System Manual Barrel Gun

Lightweight Dispensing Gun

Take control of your dispensing applications with greater precision. Compatible with all 700 system barrels. 10cc model also fits all 10cc solder paste barrels. Comes with one plunger.

Part No.	Model	Description	Price
415-235	TS705SG	Gun for 5 cc Barrels	\$65.00
415-236	TS710SG	Gun for 10 cc Barrels	\$65.00
415-237	TS730SG	Gun for 30 cc Barrels	\$65.00

Dispensing Kit

Starter Component Kit for Dispensing

Includes: three (6, 10 & 35 cc) air-powered syringe assemblies (barrel, stopper & tip cap), three (6, 10 & 35 cc) syringe adapters, 50 assorted dispensing tips, in-line filter, shop air filter and syringe stand.

Part No.	Model	Description	Price
403-290	OKD-KT	Dispensing Component Kit	\$109.25

Tapered Dispensing Tips

Tips are molded in high density polyethylene with a Luer Lok hub. Measure 1-1/4" long and come in packages of 50. Tips can be easily cut when a shorter length is needed.

Part No.	Model	Gauge	I.D.	Color	Price
403-300	TT14-50	14	.063	Tan	\$23.95
403-301	TT16-50	16	.047	Gray	\$23.95
403-302	TT18-50	18	.033	Green	\$19.50
403-303	TT20-50	20	.024	Pink	\$19.50
403-304	TT22-50	22	.016	Blue	\$19.50

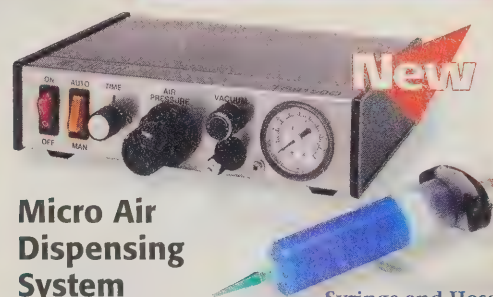
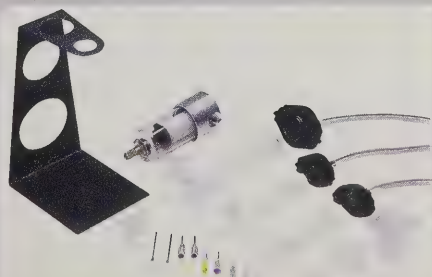
Dispensing Needles

For General Dispensing Applications

■ Luer lok hubs

Stainless steel blunt dispensing needles feature an epoxy bonded cannula and color-coded polyethylene hubs. Packaged 50 per box.

Part No.	Model	Gauge	Color	Length	Price
425-242	SE414050PK	14	Olive	1/2"	\$8.50
415-836	SE414100PK	14	Olive	1"	\$9.75
425-243	SE415050PK	15	Amber	1/2"	\$8.50
415-326	SE415100PK	15	Amber	1"	\$9.75
422-337	SE416050PK	16	Grey	1/2"	\$8.50
425-244	SE416100PK	16	Grey	1"	\$9.75
403-318	SE418050PK	18	Green	1/2"	\$8.50
403-319	SE418100PK	18	Green	1"	\$9.75
403-320	SE419050PK	19	Black	1/2"	\$8.50
425-245	SE419100PK	19	Black	1/2"	\$9.75
403-321	SE420050PK	20	Pink	1/2"	\$8.50
403-322	SE420100PK	20	Pink	1"	\$9.75
403-323	SE421050PK	21	Purple	1/2"	\$8.50
425-246	SE421100PK	21	Purple	1"	\$9.75
403-324	SE422050PK	22	Blue	1/2"	\$8.50
425-247	SE422100PK	22	Blue	1/2"	\$9.75
403-325	SE423050PK	23	Orange	1/2"	\$8.50
425-248	SE423100PK	23	Orange	1"	\$9.75
403-326	SE425050PK	25	Red	1/2"	\$8.50
425-249	SE425100PK	25	Red	1"	\$9.75
428-696	SE426025PK	26	Beige	1/4"	\$8.50
403-327	SE426050PK	26	Beige	1/2"	\$8.50
403-328	SE427025PK	27	Clear	1/4"	\$8.50
403-329	SE427050PK	27	Clear	1/2"	\$8.50
425-252	SE432025PK	32	Yellow	1/4"	\$19.50



Micro Air Dispensing System

- Auto ranging power supply accepts 100-240 VAC
- Requires shop air (1-100 PSI)
- Adjustable vacuum up to 15" Hg
- Programmable timer
- Stainless steel housing

Dispenses all viscosities of fluids using air-powered disposable syringes. Features a programmable timer (0.01-30 sec.) for accurate, repeatable dispense cycles and an adjustable vacuum pull-back for controlling drip of fluid between dispense cycles. Timer may be switched off for fully manual operation. Measures 9-1/4" x 8-1/2" x 2-1/2" and weighs only 3.85 lbs.

Part No.	Model	Description	Price
424-467	TS9150G	Micro Air Dispensing System	\$460.85



Micro-Processor Controlled Dispenser

Programable and Package Completely Ready To Use

- Requires shop air (1-100 psi)
- Built-in LED display

Program up to five varied dispensing sequences or individual shots in 0.001 second increments. Additional features include: programmable timer (0.008-99.99 sec.) for accurate, repeatable (0.05% accuracy) dispense cycles. Adjustable vacuum pull-back for controlling drip of fluid between dispense cycles. Comes complete with manual, footswitch and sample tips, barrels and syringe adapters.

Part No.	Model	Description	Price
407-827	TS9701	Micro-Processor Controlled Dispenser	\$1,240.00

Foot Valve Dispenser

Dispense Adhesives, Sealants, Coatings and Compounds

- Requires shop air (20-100 psi)

Floor-mounted dispenser features a built-in pressure regulator and pressure gauge. Output rate and shot size are operator controlled.

Part No.	Model	Description	Price
407-829	TS924	Foot Valve Dispenser	\$285.85





Deluxe Precision Dispenser

Vacuum Pullback System Prevents Dripping

Features a timer control for metered shots from 1/10 of a second to 10 seconds and a digital timer that cycles from 1/10 of a second to 9999 seconds. Extra accessory outlet is provided to connect an external tank and operate a dispensing valve with just one in-house airline connection. Operates at 110VAC and comes complete with instructions and a plug-in foot pedal. Optional vacuum wand Part No. 121-758 provides finger-actuated control for pick and place operations.

Part No.	Model	Description	Price
121-770	KDS824A	Deluxe Shot Meter	\$930.35
121-758	KDS301	Vacuum Pickup Wand	\$114.45



Basic Precision Dispenser

Economical, Foot-Activated Controller

- Requires shop air (80-100 psi)

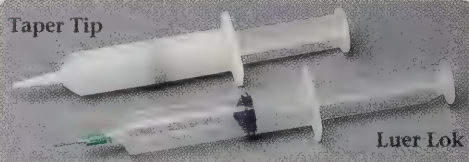
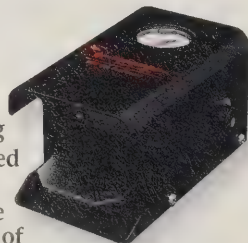
For use with air-operated dispensing applications featuring a vacuum pullback system to prevent dripping. Operates at 110VAC and comes complete with instructions and a plug-in foot pedal. One year warranty.

Part No.	Model	Description	Price
121-765	KDS808	Shot Meter with Vacuum Only	\$567.70

Air Operated Foot Valve

- Economical
- Precision dispensing
- Works on compressed air input only
- Regulator and gauge for easy adjustment of air pressure

Part No.	Model	Description	Price
121-763	KDS806	Foot Valve	\$228.85



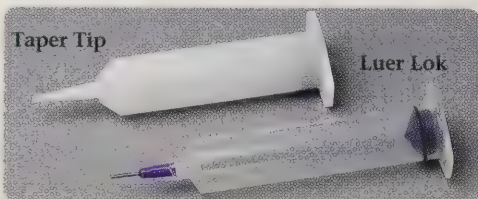
Manual Disposable Syringes

Available in Taper Tip or Luer Lok Styles

- Non-sterile
- Include barrel, stopper and plunger rod

Taper tip syringes have a .045" orifice (.025" for 6 cc syringe) that can be cut back to obtain a larger hole. Luer Lok models come without needles.

Part No.	Style	Capacity	Package QTY	Price
121-791	Taper Tip	6 cc	20	\$19.10
121-786	Taper Tip	30 cc	10	\$13.20
121-789	Taper Tip	50 cc	5	\$13.10
121-787	Luer Lok	3 cc	20	\$6.40
121-790	Luer Lok	5 cc	20	\$14.30
121-783	Luer Lok	10 cc	15	\$12.90
121-788	Luer Lok	50 cc	5	\$10.20



Air Operated Syringes

Available in Taper Tip or Luer Lok Styles

- Non-sterile
- Include barrel and stopper

Taper Tip syringes have a .045" orifice (.025" for 6 cc syringe) that can be cut back to obtain a larger hole. Luer Lok models come without a needles.

Part No.	Style	Capacity	Quantity	Price
121-709	Taper Tip	6 cc	20	\$16.10
121-706	Taper Tip	30 cc	10	\$9.15
121-707	Luer Lok	3 cc	20	\$6.20
121-708	Luer Lok	5 cc	20	\$9.50
121-704	Luer Lok	10 cc	15	\$10.70
121-705	Luer Lok	30 cc	10	\$9.30



Stainless-Steel Needles

- Available in 1/2" and 1" lengths

Blunt, disposable needles have plastic color-coded luer lock hubs. 50 per package.

Part No.	Model	I.D.	O.D.	Color	Length	Price
121-727	KDS141/2P	.067	.083	Drk Green	1/2"	\$11.20
121-728	KDS141P	.067	.083	Drk Green	1"	\$11.20
121-729	KDS151/2P	.060	.072	Orange	1/2"	\$11.20
121-730	KDS151P	.060	.072	Orange	1"	\$11.20
121-731	KDS161/2P	.053	.065	Purple	1/2"	\$11.20
121-733	KDS161P	.053	.065	Purple	1"	\$11.20
121-735	KDS171/2P	.047	.059	White	1/2"	\$7.60
121-737	KDS181/2P	.038	.050	Pink	1/2"	\$7.60
121-738	KDS181P	.038	.050	Pink	1"	\$7.60
121-739	KDS191/2P	.031	.042	Brown	1/2"	\$7.60
121-740	KDS191P	.031	.042	Brown	1"	\$7.60
121-741	KDS201/2P	.025	.036	Yellow	1/2"	\$7.60
121-742	KDS201P	.025	.036	Yellow	1"	\$7.60
121-743	KDS211/2P	.022	.032	Green	1/2"	\$7.60
121-745	KDS221/2P	.019	.028	Black	1/2"	\$7.40
121-746	KDS221P	.019	.028	Black	1"	\$7.40
121-747	KDS231/2P	.016	.025	Lt. Blue	1/2"	\$7.60
121-748	KDS231P	.016	.025	Lt. Blue	1"	\$7.60
121-749	KDS241/2P	.014	.023	Red	1/2"	\$7.60
121-751	KDS251/2P	.012	.020	Blue	1/2"	\$7.60
121-753	KDS261/2P	.010	.018	Ivory	1/2"	\$7.60



Don't forget disposable gloves!
Visit us online at
contacteast.com or jensentools.com

Universal Syringe Adapter Assembly

360° Swivel For Easy Handling

- Built-in rubber gasket assures "no leak" operation
- Include adapter head, 6 ft. hose and male fitting

Molded die cast adapters are specifically designed to fit all types of syringes regardless of manufacturer. Adapters come in four sizes and fit syringes from 2.5 to 35 cc adapter.

Part No.	Description	Size	Price
121-760	Adapter Assembly	2.5 and 3 cc	\$27.35
121-762	Adapter Assembly	5 and 6 cc	\$27.35
121-768	Adapter Assembly	10 and 12 cc	\$32.95
121-776	Adapter Assembly	30 and 35 cc	\$30.50





FM-Approved Dispenser

- 4 oz.
- Meets OSHA safety requirements
- One-touch pump dispenser approved for flammable liquid dispensing. Safety assured through rigorous factory mutual (FM) research testing.



Part No.	Description	Size	Price
182-600	FM Approved Dispenser	4 oz.	\$15.75

Conductive Solvent Dispenser

- 6 oz.
- Stainless steel pump
- Acetone resistant



Features a one-touch with an air tight check valve that stops evaporation of highly volatile solvents. High-density polyethylene body has a surface resistivity of 10^2 to 10^6 and will dissipate a charge in less than 0.01 second.



Part No.	Description	Price
121-613	6 oz. Conductive Dispenser w/ One-Touch Pump	\$14.75



121-647

121-644

One-Touch Solvent Dispensers

121-646

Unique Valve Prevents Fumes, Spills and Contamination

- Available with lockable cap

Stainless-steel pumps with air-tight check valves that stop evaporation of highly volatile solvents. Light pressure of applicator or sponge pumps fluid to surface when needed.

Part No.	Description	Size	Price
121-644	Molded Polyethylene	4 oz.	\$13.05
121-645	Molded Polyethylene	6 oz.	\$13.30
121-646	Molded Polyethylene	8 oz.	\$13.50
121-648	Molded Polyethylene Lockable Spill Proof Cap	4 oz.	\$18.85
121-649	Molded Polyethylene Lockable Spill Proof Cap	6 oz.	\$15.70
121-647	All Metal	4 oz.	\$15.70

Dispenser Bottle with Plastic Pump

- Durable lightweight polypropylene 8 oz. bottles
- Rectangular bottom for stability

Perfect for field service or travel. Available with imprint alcohol use or with no imprint for your own personal use.

alcohol

M E N D A
SANTA BARBARA, CALIFORNIA

Part No.	Model	Description	Price
141-480	35216	8 oz. Twist-Lock Bottle with Alcohol Imprint	\$6.05
141-479	35215	8 oz. Twist-Lock Bottle with No Imprint	\$5.85

Dissipative Solvent Dispenser



New

Designed for ESD-Protection and Stability

- 6 oz. bottle
- RTG 10^9 ohms
- High visibility yellow with ESD symbols

Designed from a high density polyethylene Durastatic™ which is permanently static dissipative. Offers a one touch pump that dispenses only the desired fluid into the reservoir cap as needed.



Part No.	Description	Price
423-223	6 oz. Solvent Dispenser with One-Touch Pump	\$15.25

Travel Dispenser with Twist-Lock Pump

- 4 oz.
- Durable, high density polyethylene
- Twist-lock cap with pump

Reduces spillage, fumes and waste with its twist-lock pump. Perfect for field service or travel.

Part No.	Model	Description	Price
418-462	35211	4 oz. Twist-Lock Pump Dispenser	\$4.85

Pure-Touch Solvent Dispensers

Protects Against Cross-Contamination of Fluids

- Reduces fumes, odor and evaporation

Dispensers feature a stainless steel pure-touch pump that protects against cross-contamination, by preventing fluid from returning into the dispenser.



Part No.	Capacity	Price
405-623	4 oz.	\$15.45
405-624	6 oz.	\$16.45
411-677	8 oz.	\$16.80

Static Dissipative Solvent Dispenser

- 6 oz.
- Stainless steel pumps

Available with either a one-touch pump with air tight check valve or purity pump that protects against cross contamination by preventing fluid from returning into the dispenser. Dispensers have a surface resistivity of 10^9 to 10^{10} and can dissipate a charge of $\pm 5000V$ in less than 2 seconds.



Part No.	Description	Price
409-070	6 oz. One-Touch ESD-Safe Dispenser Bottle	\$16.60
182-601	6 oz. Pure-Touch ESD-Safe Dispenser Bottle	\$18.40



Squeeze Dispensers

No Leak Cap Uses Pumping Action to Deliver Liquid

Heavy-duty translucent polyethylene bottle provides controlled delivery of oils, solvents and cleaners. Angled non-drip spout delivers single drop or fine stream (cut back tip to increase flow).

Part No.	Capacity	Price
121-714	4 oz.	\$6.90
121-715	8 oz.	\$7.50



Part No.	Model	Description	Price
423-945	35359	Yellow 8 oz. Water Bottle	\$12.85

Static Dissipative Solvent Dispensers

- 4 oz., 6 oz. or 8 oz
- Stainless steel pumps

Available with either a one-touch pump with air tight check valve or purity pump that protects against cross contamination by preventing fluid from returning into the dispenser. Surface resistivity of 10^9 to 10^{10} and can dissipate a charge of $\pm 5000V$ in less than 2 seconds.

Part No.	Description	Price
420-090	4 oz. Dispenser, One-Touch Pump	\$15.95
420-091	4 oz. Dispenser, Pure-Touch Pump	\$17.75
160-269	6 oz. Dispenser, One-Touch Pump	\$16.35
415-772	6 oz. Dispenser, Pure-Touch Pump	\$18.15
420-092	8 oz. Dispenser, One-Touch Pump	\$16.65
420-093	8 oz. Dispenser, Pure-Touch Pump	\$18.55



One-Touch Pumps



Pure-Touch Pumps

MENDA Yellow Dissipative Water Bottle

Angled Non-Drip Spout Delivers Single Drop or Fine Stream

- 8 oz. bottle
- High visibility
- RTG 10^9 ohms

Provides controlled delivery of water, solvents and cleaners. Designed from a high density polyethylene Durastatic™ which is permanently static dissipative and safe to leave out on your work bench.

Part No.	Model	Description	Price
423-945	35359	Yellow 8 oz. Water Bottle	\$12.85

Static Dissipative Spray Bottles

- 16 oz. or 32 oz.

Hand triggered spray bottles dispenses liquids such as anti-stats, water or various cleaners. Surface resistivity of 10^9 to 10^{10} and can dissipate a charge of $\pm 5000V$ in less than 2 seconds.

Part No.	Description	Price
172-600	16 oz. Spray Bottle, ESD Safe	\$9.45
415-771	32 oz. Spray Bottle, ESD Safe	\$10.25



Static Dissipative Sports Bottle

- 32 oz.

Use for personal consumption of cold drinks around work area. Has a surface resistivity of 10^9 to 10^{10} and can dissipate a charge of $\pm 5000V$ in less than 2 seconds.

Part No.	Description	Price
409-452	32 oz. Sports Bottle, ESD Safe	\$10.30

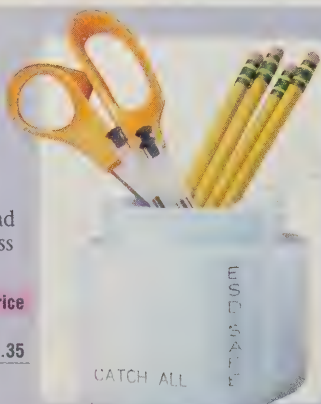


Static Dissipative Catch-All

- 16 oz.

Surface resistivity of 10^9 to 10^{10} and can dissipate a charge of $\pm 5000V$ in less than 2 seconds.

Part No.	Description	Price
415-773	16 oz. Catch All, ESD Safe	\$4.35



Static Dissipative Water/Solvent Bottle

- 8 oz.

Surface resistivity of 10^9 to 10^{10} and complies with DOD-STD-1686A, NFPA code 56A, and DOD-HDBK-263. Compatible with most common solvents such as TCE and alcohol.

Part No.	Description	Price
121-831	Static Dissipative Bottle	\$6.65



ESD SAFE

PLATO



Brush-Scrub Bottles

- 2 oz.
- No leak assembly
- Soft bristle for flux removal/general cleaning
- Stiff bristle for removing difficult materials
- Meet MIL-STD-2000

Polyethylene solvent dispensers encased in a static-dissipative jacket and features ESD-safe natural hog bristle brush tops.



Part No.	Description	Price
121-813	Scrub Bottle w/Soft Bristle	\$12.05
121-812	Scrub Bottle w/Stiff Bristle	\$12.05



Part No.
415-770



Static Dissipative Solvent Dispensers

Pressure on Tip Controls Liquid

- 2 oz.
- Pen tip or brush tip

Bottle surface resistivity of 10^9 to 10^{10} and can dissipate a charge of $\pm 5000V$ in less than 2 seconds.

Part No.	Description	Price
415-770	2 oz. Dispenser w/Pen Tip	\$7.75
415-774	Replacement Pen Tip, 5/Pkg.	\$4.05
415-769	2 oz. Dispenser w/Brush	\$7.75

PLATO



Liquid and Flux Dispensers

Dispense Liquids Without Dripping, Spilling or Waste

- 2 oz. capacity
- Standard or ESD-Safe bottles
- POS-A-LOC® leak proof design

Part No. 402-795 features a 0.5" long, .006" ID capillary tube which is ideal for dispensing "no clean flux". Part No. 121-801 and 121-800 feature a 1" long capillary tube (.010" or .020" I.D.). Part No. 121-803 and 121-804 permanently static dissipative plastic and provide protection to MIL-STD-2000, J-STD-001B, DOD-STD-1686 and Mil-B-81705, Type 2.



Part No.	Description	Price
402-795	Standard Dispenser, I.D. .006"	\$3.60
121-801	Standard Dispenser, I.D. .010"	\$2.90
121-800	Standard Dispenser, I.D. .020"	\$2.95
121-803	ESD-Safe Dispenser, I.D. .010"	\$6.35
121-804	ESD-Safe Dispenser, I.D. .020"	\$6.50

PLATO



Static-Dissipative Fluid Dispensers

- Meets Class 10,000 cleanrooms
- Meets MIL-STD-2000, J-STD-001B, DOD-STD-1686 and MIL-B-81705 Type 2

Bottle and nozzle/cap are permanently static-dissipative providing electrostatic discharge protection.



Part No.	Description	Price
191-846	8 oz. Angle Nozzle Dispenser	\$10.70
121-808	4 oz. Spout Dispenser	\$6.60
121-811	8 oz. Spout Dispenser	\$6.65
121-805	16 oz. Spout Dispenser	\$9.45

Disposable Aluminum Dish

- Non-coated

Ideal for general-purpose weighing, dispensing, sampling, mixing adhesives/epoxies and many other applications. Crimped sides, flat smooth bottom with finger tab handle and slight taper for stacking. 144 per package.



Part No.	Description	Diameter	Depth	Price
160-664	Aluminum Dish	2-1/2"	19/32"	\$17.95



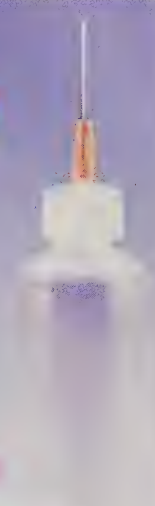
Precision Dispenser

Controlled Usage—One-Drop Dispensing

- 2 oz.

Clear polyethylene bottle with taper cap with 0.020" inside diam. disposable needle.

Part No.	Description	Price
121-723	Precision Dispenser	\$1.95



Economical Plastic Bottles

- 2 oz., 4 oz. or 8 oz.
- Packaged 3 bottles per size

Clear polyethylene with screw-on tapered cap (0.032" hole) and nozzle cap.

Part No.	Capacity	Price
121-592	2 oz.	\$3.10
121-593	4 oz.	\$4.45
121-594	8 oz.	\$4.95



Dispensing Spatula

- Overall length 2-1/2"
- Protective cover
- Color-coded handles denotes tip size

Handy tool for applying lubricants to small moving parts or a miniature spatula for applying adhesives.

Part No.	Tip Size	Color	Price
125-087	.010"	Black	\$2.90
125-088	.015"	Blue	\$2.90
125-089	.020"	Green	\$2.90
125-090	.025"	Red	\$2.90

Static-Dissipative Dispensing Bottles

- 2 oz.
- Available with three different size needles

Surface resistivity of 10^9 to 10^{10} and can dissipate a charge of $\pm 5000V$ in less than 2 seconds.

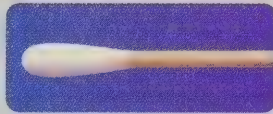
Part No.	Description	Price
160-267	ESD Safe, 26 Awg	\$7.75
121-725	ESD Safe, 20 Awg	\$7.75
160-265	ESD Safe, 16 Awg	\$7.75





Cotton Swabs

Ideal for spot application of flux and for contaminant and flux removal from hard-to-reach areas. Virgin-cotton tip is wound securely on stick handle.



Industrial Swabs

Available in 3" and 6" lengths. Head dimensions are 3/16" dia. x 5/8" L. 1,000 swabs per package.

Part No.	Length	Price
421-300	3"	\$7.50
421-400	6"	\$9.90

Lint-Free Swab

Resists tears and pulls leaving your cleaning environment virtually lint-free. Head dimensions are 3/16" dia. x 5/8" L. Overall length 6". 1,000 swabs per package.

Part No.	Model	Price
190-678	876WC	\$16.00

Urethane Foam Tip Swabs

Designed for Use with Solvents and Rigorous Conditions

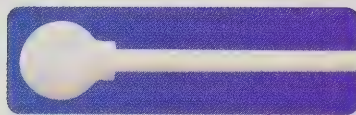
Tips are made from shred-resistant, 100% urethane foam. 5" long shafts are polypropylene. Foam heads are thermally bonded to shafts.



Small Rectangular Tip Swab

Head dimensions are 9/16" W x 15/16" L. 50 swabs per package.

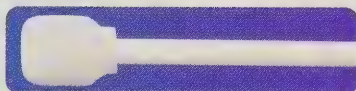
Part No.	Model	Price
411-866	1605-PSF RECT	\$10.50



Round Tip

Head dimensions are 29/32" W x 1-1/8" L. 50 swabs per package.

Part No.	Model	Price
411-867	1805-PF RND	\$10.20



Rectangular Tip

Head dimensions are 5/8" W x 1" L. 50 swabs per package.

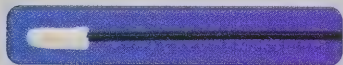
Part No.	Model	Price
411-865	1805-PF RECT	\$13.15

ITW Chemtronics® Polyurethane Foam Swabs

Will Not Crack, Fragment or Lint, Even Under Prolonged Use

■ Nonabrasive ■ Highly absorbent

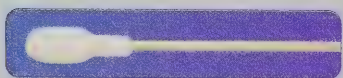
Precision cleaning swabs are made from the purest grade polyurethane foam. Thermally bonded in a cleanroom packaged.



Foamtip Pro

Double-sided swabs with two cleaning heads (1/2" and 9/32" wide). Polypropylene handle bends without breaking and is 6" long. 50 swabs per package.

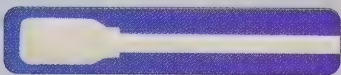
Part No.	Model	Price/Pkg
127-724	CFP50	\$28.30



Foamtip #100

3/8" wide foam tip over a cotton bud for extra absorbency. Wooden handle is 6" long. 50 swabs per package.

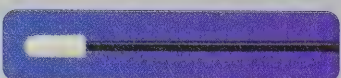
Part No.	Model	Price/Pkg
127-722	CF50	\$13.70



Foamtip #120

Rectangular, full-sized swab, 1/2" wide. Polypropylene handle is 5" long. 50 swabs per package.

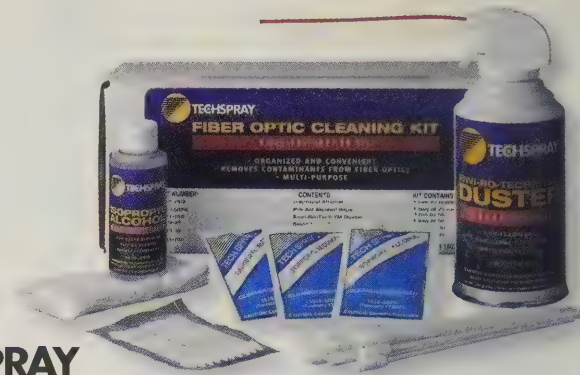
Part No.	Model	Price/Pkg
127-719	CF2050	\$17.30



Foamtip #140

Mini-swab with a rigid 3/16" wide head. Polypropylene handle is 2-1/4" long. 50 swabs per package.

Part No.	Model	Price
191-876	CF4050	\$13.70



TECHSPRAY

Fiber Optic Cleaning Kit

■ Fiber Preparation Kit

Multi-purpose kit removes contaminants from fiber optics. Kit includes: one, 2 oz. bottle of isopropyl alcohol, twenty-five pre-sat alcohol wipes, one 10 oz. air duster aerosol, 50 foam tip swabs, 30 cotton swabs, and 25 4"x4" polyester wipes.

Part No.	Model	Description	Price
416-767	1602-K	Fiber Optic Cleaning Kit	\$28.75

ITW Chemtronics®

Fiber Optic Swab

Ideal for Cleaning 2.5mm Fiber Optic Connectors

Wrapped foam swab cleans fiber optic connector surfaces and carbonization from laser optics. Free of fibers, adhesives, binders and leaves no residue. Ideal for use in tight tolerance areas and works well as a solvent applicator. Head dimensions are: 0.1" width x 1.0" length. Overall length is 6". Come 5 swabs per package or 100 swabs per package.

Part No.	Model	Description	Price
416-760	25184	5 Swabs per Package	\$3.90
416-761	25183	100 Swabs per Package	\$68.90



Anti-Static Foam Tip Swabs

Anti-Static Properties Will Not Decay Over Time

Made of total static-free construction. Static-dissipative swabs attract dirt and dust for easy cleaning, while reducing and dissipating static electricity. Polyolefin shaft. Swabs meet all industry standards and requirements, including ASTM-D257 and Federal test method 4046, standard #101C.



Thin Oblong Tip

Shaft is 6" long. Head dimensions are 3/16" W x 11/16" L. 50 swabs per package.

Part No.	Model	Price
163-279	1806-PF AS	\$13.85



Rectangular Tip

Shaft is 5" long. Head dimensions are 11/16" W x 1" L. 50 swabs per package.

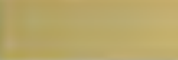

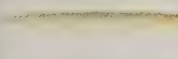

Part No.	Model	Price
411-868	1805-PF AS RECT	\$18.75

COVENTRY

Wrapped Foam Swabs

Highly Absorbent and Low in Particulates

Wrapped foam swabs provide good particle entrapment and work well as solvent applicators. Foam tip delivers abrasion resistance for removal of contaminants and creates a wicking action that pulls solvents from surfaces. Wood handles except for model 21050 has a nylon handle. 500 swabs per bag.


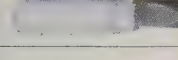
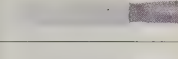
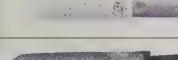
	Part No.	Model	Head Width	Head Length	Overall Length	Head Material	Price Per Package
	413-982	20080	.11"	.89"	2.6"	Polyurethane Foam	\$79.60
	413-981	20050	.12"	1.06"	2.6"	Polyurethane Foam	\$74.90
	408-452	21050	.14"	1.08"	2.8"	Polyurethane Foam	\$86.50
	413-983	23110	.47"	1.08"	6.0"	Polyurethane Foam over Cotton	\$99.60

COVENTRY

Sealed Polyester Swabs

Highly Resistant to Acid, Solvents, and Acetone

Swabs are thermo-formed and welded to the handle without adhesives. This provides superior strength and low particulates. Highly absorbent. Polypropylene handles. 500 swabs per bag.

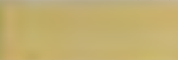

	Part No.	Model	Head Width	Head Length	Overall Length	Head Material	Price Per Package
	130-342	38040	.12"	.44"	2.7"	Knit Polyester	\$52.40
	180-854	38540	.12"	.46"	2.7"	Nonwoven Polyester	\$56.90
	413-986	38140	.12"	.48"	2.7"	Knit Polyester	\$73.50
	180-850	36060	.21"	.75"	5.8"	Knit Polyester	\$98.10

COVENTRY

Wrapped Polyester Swabs

Lint-free, Adhesive-Free and Highly Absorbent

Glass filled nylon handles. 25 swabs per bag.

	Part No.	Model	Head Width	Head Length	Overall Length	Handle Material	Price Per Package
	413-987	51121	.23"	.40"	2.8"	Glass Filled Nylon	\$10.60
	180-851	52121	.24"	.40"	6.3"	Glass Filled Nylon	\$11.10

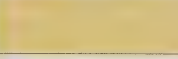

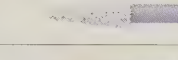

For an expanded selection
of swabs visit
contacteast.com or jensentools.com

COVENTRY

Sealed Foam Swabs

Non-Abrasive, Highly Absorbent & Low in Particulates

Ideal for use with solvents such as isopropyl alcohol. Polypropylene handles. 500 swabs per bag.

	Part No.	Model	Head Width	Head Length	Overall Length	Head Material	Price Per Package
	413-979	48040	.12"	.41"	2.7"	Polyurethane Foam	\$44.50
	413-978	44070	.13"	.39"	3.2"	Polyurethane Foam	\$37.30
	413-974	41050	.14"	.40"	2.8"	Polyurethane Foam	\$35.10
	180-861	49280	.19"	.68"	6.5"	Polyurethane Foam	\$70.05

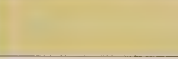



COVENTRY Diamond Swabs™

Designed for Ultra-Critical Applications

ESD-Safe (model 51353ESD)

Swabs are designed where contamination is the utmost concern. Diamond Swab™ has a wrapped tubular knit head to create the cleanest swab in the world. Model 51353ESD offers a static dissipative handle which will dissipate 99% of a 5,000V charge in less than 0.5 seconds. Model 51353 offers a glass filled nylon handle. 100 swabs per bag.

	Part No.	Model	Head Width	Head Length	Overall Length	Head Material	Price Per Package
	413-988	51353ESD	.16"	.78"	2.8"	Tubular Knit Polyester	\$44.80
	413-989	51353	.16"	.78"	2.8"	Tubular Knit Polyester	\$35.10


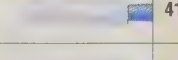

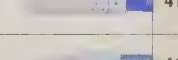




COVENTRY Static Control Swabs

Eliminate Damage from Static Electricity

ESD-Safe

Swabs are thermo-formed and welded to the handle without the use of adhesives. This provides superior strength and low particulates. Swabs are very absorbent and highly resistant to acid and solvents including acetone. Handles are ESD-Safe and will dissipate 99% of a 5,000V charge in less than 0.5 seconds. 500 swabs per bag.

	Part No.	Model	Head Width	Head Length	Overall Length	Head Material	Price Per Package
	413-970	38040ESD	.12"	.44"	2.7"	Knit Polyester Flexible Tip	\$76.00
	413-968	31040ESD	.12"	.44"	2.8"	Knit Polyester	\$77.90
	413-971	38140ESD	.12"	.48"	2.7"	Knit Polyester Flexible Tip	\$76.00
	413-973	44070ESD	.13"	.39"	3.2"	Polyurethane Foam	\$71.30
	174-770	41050ESD	.14"	.40"	2.8"	Polyurethane Foam	\$71.30
	413-969	36060ESD	.21"	.75"	5.8"	Knit Polyester	\$115.50



Disposable Wipers

Wipes Clean Without Tearing

Soft, absorbent, cloth-like wipers for gentle wiping, cleaning and polishing. Kimwipes wipe clean, wet or dry, yet resist tearing and shredding. Because of their lint-free characteristic, Kimwipes are ideal for wiping precision parts and components, and for use in all clean rooms.*



Part No.	Wiper Size	Wipers/Box	Price/Box	Boxes/Case	Price/Case
127-528	4-1/2"x8-1/2"	280	\$4.10	60	\$123.00
127-526	12"x12"	196	\$9.85	15	\$73.90
127-531	15"x16-7/8"	140	\$12.60	15	\$94.50

*Available in box or case quantity

WypAll® L30 EconoMizer® Wipers

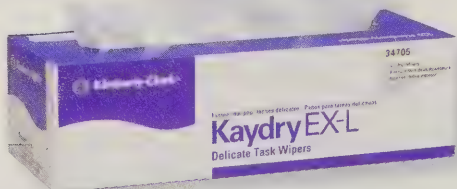
Cloth Like Feel at a Value Price

- Absorbent
- Soft
- Economical

Versatile wipers are made with bonded cellulose construction which provides cloth-like softness and performance for a wide variety of light duty wiping and maintenance clean-up. Ideal for applications in manufacturing, general facility and machine maintenance.



Part No.	Size	Wipers/Pkg.	Price
423-408	16.4" x 9.8"	100	\$12.50



Kaydry® Disposable Wipers

Two-ply Wipers are Extra Absorbent

Soft, non-abrasive paper wipers are designed for wiping, cleaning and polishing delicate surfaces. Box features LINTGUARD® polyshield to reduce lint and electrostatic discharge.

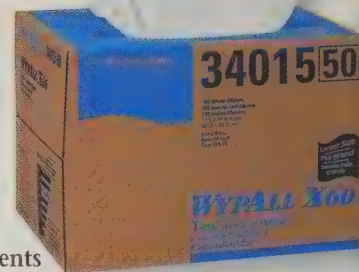
Part No.	Size	Wipers/Pkg.	Price
171-659	12" x 12"	119	\$10.00

WypAll® X60 Teri® Wipers

Reinforced for Extra Cleaning Power

- Use for applying thinners & solvents
- Cable lubricant removal
- Adhesive cleaning
- Removing grease & oil in hard to reach places

Ideal rag replacement wipe. No adhesives or binder; leaves nothing behind. Reinforced for extra scrubbing and cleaning power. Tough enough for big jobs.



Part No.	Size	Wipers/Pkg.	Price
423-405	12.5" x 16.8"	180	\$21.95

Crew® Critical Task Wipers

Ideal for Class 10-100 Cleanroom Operations

- 100% polypropylene
- Low in particulate levels

Wipes come double-wrapped in anti-stat packaging. Solvent resistant. White color.



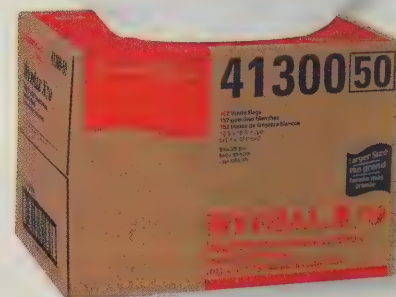
Part No.	Size	Wipers/Pkg.	Price
423-409	11.5" x 12"	100	\$32.50

WypAll® X70 WorkHorse® Heavy-Duty Wipers

Textile Performance at a Value Price

- Cleans surfaces & tools
- Heavy maintenance wiping
- Absorbs more oil & water than cloth or rags

Tackles heavy-duty industrial jobs usually handled by cloth rags. Long lasting performance that extends usage and reduces waste. Cleans oil, grime and solvent with just one wipe.



Part No.	Size	Wipers/Pkg.	Price
423-406	12.5" x 16.8"	152	\$37.90
423-407	15.5" x 16"	300	\$86.00



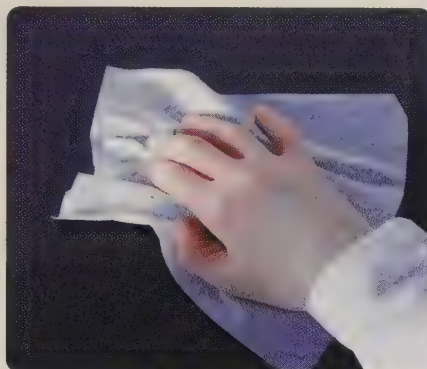
For an expanded selection of wipes visit
contacteast.com or jensentools.com

COVENTRY Cellulose/Polyester Wipes

Economical Cleanroom Utility Wipes

- Cellulose and polyester nonwoven blend

Wipes consist of cellulose and polyester nonwoven blend. These bonded fibers offer good strength and absorbency with low linting. Compatible with most solvents and diluted acids. Processed and packaged in Class 100 environment.



Part No.	Model	Size	Wipers/Pkg.	Price/Pkg
130-346	6704	4" x 4"	1200	\$21.90
130-347	6709	9" x 9"	300	\$21.90

COVENTRY Cotton Wipes

Low Linting, Extremely Durable

These 100% cotton twill fabric wipes are cut on the bias to prevent fraying while ensuring that they maintain superior strength and integrity in all directions. Compatible with most solvents and diluted acids. They are the best choice in high temperature applications that would melt a wipe made of synthetic material.



Part No.	Model	Size	Wipers/Pkg.	Price/Pkg
130-349	6809	9" x 9"	300	\$89.10

TEXWIPE Lint Free Cotton Wipes

Traps Contamination Away from Cleaning Surface

- Noncontaminating
- Nonabrasive
- Resistant to strong solvents and acids

High-absorbency, 100% cotton wiper has twill-weave patterned surface on both sides and uses only long staple cotton yarns. Eliminates free-floating fibers on surface of fabric. Suitable for wiping delicate electronic components, tape transport units, and removing water spills, solvents, acids and etchants in wafer processing.



Part No.	Model	Size	Wipers/Pkg.	Price
127-958	TX304	4" x 4"	1200	\$104.35
127-959	TX309	9" x 9"	300	\$91.00
127-960	TX312	12" x 12"	150	\$98.60

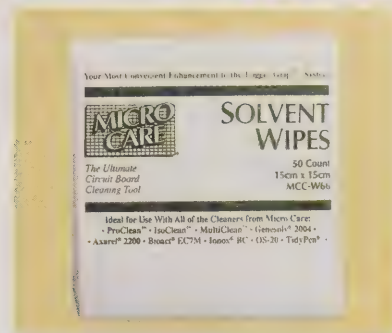


Lint-Free Solvent Wipes

Rugged, Reusable Wipes

- Tear-resistant
- Long-lasting & economical

Wipes easily absorb excess solvents, dry circuit boards, clean squeegees and stencils, polish housings and cabinets, and absorb grease, oil or grime. They are made of a non-woven fabric that is a blend of synthetic and natural materials for increased absorbency. They have a "non-linear" grain which is resistant to shredding so they will not rip, tear or leave scraps of lint.



Part No.	Model	Size	Wipers/Pkg.	Price
403-711	MCC-W66	6" x 6"	50	\$8.00
403-712	MCC-W12	12" x 16"	50	\$17.10

ITW Chemtronics

Cellulose Paper Opticwipes™

Paper Wipe for Use on Optical and Other Sensitive Surfaces

- 100% Cellulose paper
- Solvent resistant
- Highly Absorbent
- Excellent wet strength

Designed to clean optical surfaces, photo processing, lab equipment and other precision instruments. Non-contaminating.



Part No.	Model	Size	Wipers/Pkg.	Price
173-975	C920	9" x 9"	500	\$30.40

ITW Chemtronics

Polyester Controlwipes™

Solvent Resistant Wipes are Highly Absorbent

Spunlaced polyester cellulose fabric is resistant to most solvents, alcohols and dilute acids. Will not tear, shred, unravel or lint. Wipes feature high absorbency, liquid retention and will not scratch surfaces. Designed for critical environment applications requiring contamination control.



Part No.	Model	Size	Wipers/Pkg.	Price
127-716	C910	9" x 9"	150	\$26.10



TECHSPRAY

Techclean® Purwipe

Reusable Polyester Wipe

- Low contamination
- High absorbency

One continuous filament polyester fiber in an interlocking knit gives this wipe high absorbency, low particulate generation and high durability. Can be used repeatedly without fraying and generating contaminating particles. Ideal for removing solder paste from fine pitch stencils.



Part No.	Model	Size	Wipers/Pkg.	Price
413-446	2355-100	9" x 9"	100	\$31.00

TechClean® Wiper

General Purpose Wipe

- Non-Abrasive
- Non-Raveling
- Will not scratch
- Lint-free

Specifically designed for cleanroom maintenance, this hydroentangled cellulose/polyester wipe has high absorbency with extra low particulate and chemical extractables. Manufactured and packaged in a Class 100 Cleanroom and is Class 100 certified.



Part No.	Model	Size	Wipers/Pkg.	Price
127-485	2350-100	9" x 9"	100	\$16.50

TechClean® Twillwipe

Wipe for Abrasive Surfaces

- Low linting
- Tightly woven 100% cotton
- No chemical extractables

100% cotton twill weave designed for wiping abrasive surfaces. The high tear strength prevents shredding, which can lead to excessive linting. The cotton weave enables the wipes to be used in static sensitive areas.



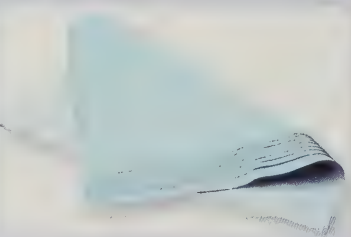
Part No.	Model	Size	Wipers/Pkg.	Price
160-163	2357-100	6" x 6"	100	\$17.75

Techclean® Cellulose/Polyester Blue Wipe

Specifically Designed for General Maintenance

- Economical
- High absorbency
- Lint free

Hydroentangled cellulose/polyester wipe is highly absorbent with extra low particulate and chemical extractables. Non-raveling, non-abrasive and will not scratch.



Part No.	Model	Size	Wipers/Pkg.	Price
172-822	2359-300	9" x 9"	300	\$27.35

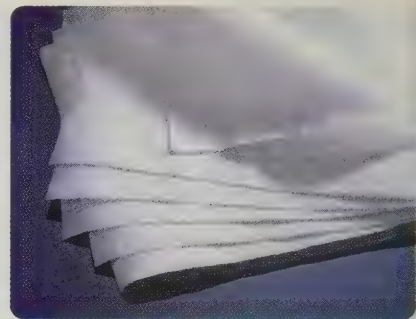


Understencil Wipe

Resists Tearing, Shredding and are Very Low in Lint

- Polyester/cellulose blend
- Cleans SMT stencils & screen/stencil printing machines

Absorbs solder paste, flux residue, inks and epoxies, with or without solvent. Keeps stencil undersides clean from excess residue in between prints to prevent solder paste contamination on PC boards. Ideal for cleaning standard pitch, fine pitch and ultra fine pitch stencil images.

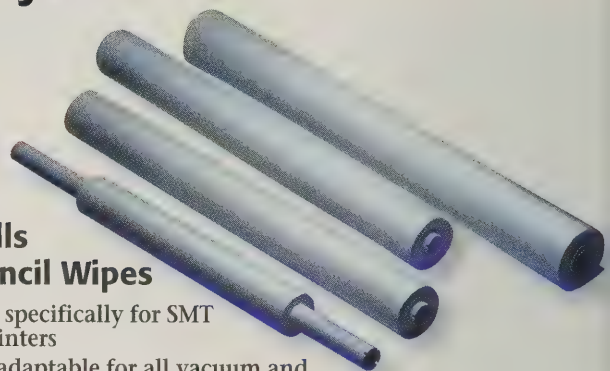


Part No.	Model	Size	Wipers/Pkg.	Price
127-558	401	9" x 9"	300	\$31.80

EasyBraid Co.

Easy Rolls SMT Stencil Wipes

- Designed specifically for SMT screen printers
- Material adaptable for all vacuum and non-vacuum machines
- High strength, even when wet
- Exceptionally low lint levels
- Solvent resistant and highly absorbent



Easy Rolls Stencil Wipes for DEK Systems

Part No.	Model	Fit Series	Core Length	Core ID	Roll Length	Price
417-411	EB41D1818	DEK 260A #128034	18"	1.00"	39 ft.	\$19.20
417-412	EB41D2112	265 Series	12"	.75"	39 ft.	\$16.80
417-413	EB41D2120	265 Series GS #129051	21"	.75"	39 ft.	\$18.35
417-414	EB41D2121	265 Series #112239	21.25"	.75"	39 ft.	\$20.70
417-415	EB41D2116	265 GS/GSX/288 Horizon Infinity	21"	.75"	39 ft.	\$18.45

Easy Rolls Stencil Wipes for MPM Systems

Part No.	Model	Fit Series	Core Length	Core ID	Roll Length	Price
417-406	EB41M1855	P1485, AP & UP Series, UP3000	18"18"	.75"	55 ft.	\$20.70
417-407	EB41M1818-1	P2348 AP Series	18"	1.00"	47 ft.	\$19.20
417-408	EB41M1812	P2112 AP Series	18"	.75"	55 ft.	\$17.40
417-409	EB41M2424	MPM AP36	24"	.75"	55 ft.	\$24.45
417-410	EB41M1809	AP17, 21, 25, 27, UP2000	18"	.75"	55 ft.	\$15.55

Easy Rolls Stencil Wipes for Panasonic Systems

Part No.	Model	Fit Series	Core Length	Core ID	Roll Length	Price
140-905	EB41P1414	GI Series	14.18"	1.50"	40 ft.	\$18.40
423-020	EB41P2121	GI Series	21.25"	1.50"	40 ft.	\$19.50
423-021	EB41P1616	GI Series	16"	1.50"	40 ft.	\$17.10
423-022	EB41P2821	MSS	28"	1.50"	33 ft.	\$19.90



Solder Paste and Flux Remover

Cleaner for R, RA and RMA Paste and Flux

- Aggressive cleaning strength
- Test on plastics
- Medium odor
- Non-flammable
- Moderate drying

Cleans PC boards, contacts, relays, gold fingers and most types of electronic assemblies. May be used straight for maximum cleaning power or diluted for use in dip or ultrasonic tanks.

Part No.	Model	Description	Price
174-230	SW100PFR	100 Wipe Canister	\$21.70
411-872	SB6PFR	One Pint Trigger Spray	\$11.80
171-471	GA6PFR	One Gallon Container	\$33.00

Isopropyl Alcohol and DI Water

- Regular cleaning strength
- Safe on plastics
- Mild odor
- Flammable
- Fast drying

A universal cleaner and disinfectant with deionized water. Removes most types of inks, pastes, light oils and contaminants associated with soldering, fluxes, printing and most industrial cleaning applications.

Part No.	Model	Description	Price
403-346	SW100IPA/DI	100 Wipe Canister	\$14.80
411-871	SB6IPA/DI	One Pint Trigger Spray	\$7.15
413-383	GA6IPA/DI	One Gallon Container	\$13.55



Semi Aqueous Paste and Flux Remover

Cleaner for Water Soluble and Rosin Based Fluxes

- Regular cleaning strength
- Test on plastics
- Mild odor
- Non-flammable
- Slow drying

A safe, low cost cleaner for water soluble and rosin based fluxes and for general degreasing operations. Works quickly to remove tough organic contaminants such as soldering oils, waxes and other similar soils found in electronic assembly manufacturing. Ideal for cleaning printing screens, stencils and for misprinted PC boards. Does not require rinsing.

Part No.	Model	Description	Price
403-342	SW100AFR	100 Wipe Canister	\$21.70
171-476	SWB6AFR	One Pint Trigger Spray	\$11.80
171-465	GA6AFR	One Gallon Container	\$33.00

SMT Stencil Cleaner

- Regular cleaning strength
- Safe on plastics
- No odor
- Leaves no residue
- Both manual & automatic cleaning
- Non-flammable
- Slow drying

Quickly removes solder paste from stencils, squeegees, printers, tools, machinery and PC boards. Excellent all purpose cleaner and degreaser. Can be used to degrease UV curable inks and adhesives or as a general parts degreaser.

Part No.	Model	Description	Price
407-826	SW100SMT	100 Wipe Canister	\$21.70
175-538	SB6SMT	One Pint Trigger Spray	\$11.80
174-144	GA6SMT	One Gallon Container	\$33.00

Epoxy and Adhesive Cleaner

- Very aggressive cleaning strength
- Test on plastics
- Non-flammable
- Strong odor
- Slow drying

Aggressive solvent for cleaning conductive epoxies, 2 part epoxies, label adhesives, labels and most varieties of glue or adhesive residues. Ideal for cleaning screen printable epoxies used in electronics.

Part No.	Model	Description	Price
174-229	SW100EAD	100 Wipe Canister	\$23.15
175-537	SB6EAD	One Pint Trigger Spray	\$17.70
171-474	GA6EAD	One Gallon Container	\$40.20



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shipable by air. These products are not returnable or refundable. Please call if you require specific information.



SmartWeave™ 5000 SmartRolls® Understencil Wipes

Work Best with Vacuum Systems

Designed for stencil printing machines that use vacuum to draw excess solder and other materials out of stencil apertures and into the wiper material. Wipes are porous to allow the air flow of a vacuum system to penetrate it, yet are extremely strong and very low in lint.

Part No.	Model	Printing Machine	Length	Width	Price
171-469	5101MP	MPM #1485	39 ft.	17.5"	\$13.65
174-248	5202DK	DEK #129051	39 ft.	20.87"	\$25.75
416-764	5502PA	Panasonic G1	39 ft.	14.18"	\$21.80

OmniRoll 7000™ Understencil Wipes

Great on Systems With or Without Vacuum

- Lighter weight material
- Up to 50% more material per roll
- Fewer changeovers-less down time
- Strong with high absorbency
- Very low in lint

Part No.	Model	Printing Machine	Length	Width	Price
416-765	7101MP-55	MPM AP & UP	55 ft.	17.5"	\$21.40
416-766	7105MP-55	MPM AP & UP	55 ft.	21.5"	\$23.50

Standard SmartRolls® Understencil Wipes

Work Best with Non-Vacuum Systems

- Cleanroom grade
- Resist tearing and shredding
- Tough & absorbent

Part No.	Model	Printing Machine	Length	Width	Price
171-463	4101MP	MPM #1485	39 ft.	17.5"	\$15.65
416-763	4101MP-12	MPM AP & UP	39 ft.	12"	\$14.10
413-378	4104MP	MPM UP-3000	39 ft.	24"	\$18.75
174-110	4202DK	DEK #129051	36 ft.	20.87"	\$20.45
171-478	4502PA	Panasonic G1	39 ft.	14.18"	\$20.70

Lower Your Costs While Boosting Your Throughput With Sontara® FP Rolls

90% of all SMT production problems start on the stencil printer. Fix your printer, and you fix most of your production problems.

But engineers never suspect the stencil roll may be at the heart of their printing problems. That's why our new stencil rolls, featuring Sontara® FP paper, can help in unexpected ways. This totally new fabric is cleaner, stronger and lifts more paste than anything on the market today. It's even better than the older Sontara® papers, especially on fine-pitch boards

These new rolls absorb more solder paste, so you clean less often. They leave fewer fibers on the stencil, eliminate the need for solvent wiping, and out-perform standard papers on those tricky lead-free pastes.

So...

...if you're making fine-pitch PCBs,
...or if you're having yield problems,
...or if your stencil printer is a production bottleneck,

...or you are spending too much on "cheap" stencil rolls, then call

Contact East / Jensen Tools for a free sample of the new Sontara® FP paper, exclusively from Micro Care.

These new rolls will start making you money the moment you mount them on your stencil printer.

"Sontara" is a registered trademark of DuPont Corp.



The World's Cleaning Experts



**DuPont Sontara® FP
Fine-Pitch Stencil Rolls
Are Available in a Wide
Variety of Sizes and Configurations,
and for Every Stencil Printer,
Only from Micro Care**



The New "FP" Paper



Old-Style Paper

You can see the difference. The new "FP" paper uses only one type of fiber, a very strong and hard synthetic fiber. These "micro-squeegees" scour the stencil, absorbing solder paste without leaving fibers behind.

In contrast, cheap stencil rolls use polyester and cellulose fibers, held together with glue. This paper simply is not up to the job.

Micro Wipe™ Stencil Rolls

Boost Printer Productivity with a New DuPont Fabric

- Micro Wipe FP rolls cut cleaning cycles
- Improving throughput, reducing defects
- 10 times cleaner than classic Sontara®
- 56% more absorbent than older papers
- Overall productivity increases 60%+

New

Micro Care introduces DuPont's newest stencil cleaning fabric, Sontara® Cleanmaster™ FP. Engineered specifically for fine-pitch stencils, they increase throughput while reducing defects. They are the smart choice for fine-pitch stencils.

Sontara® Cleanmaster™ FP Stencil Rolls

About the Paper

Hydroentangled mesh of only one material: a durable, absorbant polymer of synthetic rayon. This makes the wipes stronger, more consistent and more absorbent than the traditional Sontara fabric. The extra strenght is vital because it reduces linting. These new rolls are 10 times cleaner than classic Sontara. This delivers a dramatic boost in fine pitch yields.

Less Cleaning, More Printing

These new rolls reduce the number of time-wasting cleaning cycles. Each cleaning cycle avoided creates time for five printing cycles. In addition, since the cleaning cycles are more effective there are fewer stoppages for manual stencil wiping. This produces stunning improvements in productivity.

Stronger Solder Joints

A cleaner stencil allows more paste to flow onto the board, resulting in taller solder pads and stronger solder joints. In one prolonged test, Micro Wipe FP rolls increased pad height an average of 11%.

Fewer Defects and Misprints

Defective printing is a huge waste of time and money. but in a large-scale trial with five SMT lines the defect-free yield jumped to 99.55% from an average of 97.25% - an 83% reduction in defects.

Part No.	Model	Description	Length	Width	Price
425-604	MCC-101DF	MPM P1485	39 ft.	18.00"	\$18.75
425-605	MCC-101DF	DEK 265 & 288	30 ft.	20.87"	\$19.75



Lint-Free SMT Stencil Wipes

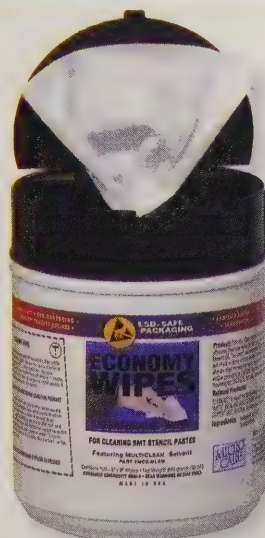
Strong and absorbent wipes grab and hold solvents, solder paste, adhesives, fluxes, oils and grime. They retain their strength even when wet and will not shred or leave residues on the boards or stencils. Non-woven, non-linear blend of synthetic and natural materials is stronger than cloth and more absorbent than paper. Rolls are available in many popular configurations to meet OEM specifications. Custom sizes also available.

Stencil Wipes for MPM Systems

Part No.	Model	Description	Length	Width	Price
403-254	MCC-101	MPM P1485	39 ft.	18.00"	\$16.40
403-255	MCC-102	MPM P2348	33 ft.	18.00"	\$18.70
403-256	MCC-103	MPM P1858	39 ft.	25.25"	\$22.10

Stencil Wipes for DEK Systems

Part No.	Model	Description	Length	Width	Price
403-257	MCC-104	DEK 112239	36 ft.	21.25"	\$24.30
402-582	MCC-105	DEK 129051	30 ft.	20.87"	\$24.80
403-258	MCC-106	DEK 128034	39 ft.	17.91"	\$21.40



Stencil Wipes with ProClean™

Powerful for Cleaning R, RA, RMA and No Clean Solder Pastes

- Plastic safe
- Ozone safe

Low aroma and good tack time. ESD-safe; mil-spec approved and leaves no residues. Contains a blend of Denatured Alcohol and Isopropanol.

Part No.	Model	Description	Price
403-403	MCC-PROW	Stencil Wipes	\$20.75

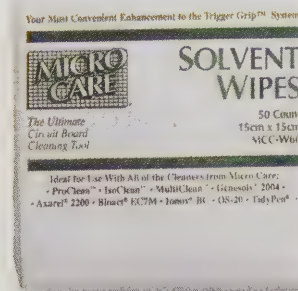
Lint-Free Solvent Wipes

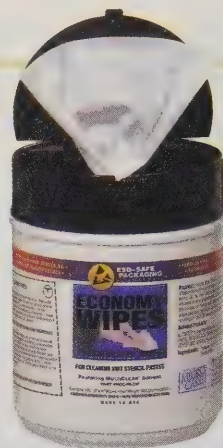
Rugged, Reusable Wipes

- Tear-resistant
- Long-lasting & economical

Wipes easily absorb excess solvents, dry circuit boards, clean squeegees and stencils, polish housings and cabinets, and absorb grease, oil or grime. They are made of a non-woven fabric that is a blend of synthetic and natural materials for increased absorbancy. They have a "non-linear" grain which is resistant to shredding so they will not rip, tear or leave scraps of lint.

Part No.	Model	Size	Wipers/Pkg.	Price
403-711	MCC-W66	6" x 6"	50	\$8.00
403-712	MCC-W12	12" x 16"	50	\$17.10





Presaturated Wipes

- Ideal for cleaning stencils, ceramics, fixtures & tools
- Removes solder paste, oils, grease, flux and other contaminants

Presaturated wipes are packaged in an ESD-safe, no-spill polyethylene container with a reclosable, snap lock lid. Each container has 100 pieces of 6" x 8" pop-up sheets that are a lint-free, non-woven (hydroentangled) cellulose and polyester blend. This "nonlinear" design will not tear, rip or leave scraps of lint and also provides excellent absorbancy to trap contaminants and speed the cleaning process.

Economy Wipes with MultiClean™

Excellent for R, RA, RMA and No Clean Solder Pastes

- Plastic safe
- Ozone safe

Also highly effective on water-soluble contaminants. Mild, with a very modest aroma. ESD-safe; mil-spec approved and leaves no residues. Contains a blend of Isopropyl Alcohol (70%) and deionized water (30%).

Part No.	Model	Description	Price
403-404	MCC-MLCW	Economy Wipes	\$16.65

Stencil Wipes with ProClean™

Powerful for Cleaning R, RA, RMA and No Clean Solder Pastes

- Plastic safe
- Ozone safe

Low aroma and good tack time. ESD-safe; mil-spec approved and leaves no residues. Contains a blend of Denatured Alcohol and Isopropanol.

Part No.	Model	Description	Price
403-403	MCC-PROW	Stencil Wipes	\$20.75

ScreenClean™ Wipes with Rosstech 119

Formulated Specifically for Screens

- Ozone safe
- Leaves no residues

It offers maximum cleaning without damaging the delicate emulsions on screens. Slow drying for maximum tack time.

Part No.	Model	Description	Price
408-334	MCC-CDIW	ScreenClean Wipes	\$21.10

Expoxy™ Wipes

Cleans Away Both One-Part and Two-Part Epoxies

- Ozone safe
- Leaves no residues

Powerful cleaning with minimum effort. Use on stencils, screens, dispensing gear and misprints.

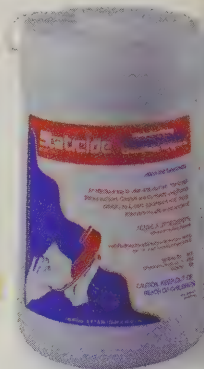
Part No.	Model	Description	Price
408-335	MCC-EPXW	ExPoxy Wipes	\$27.80

ACL Staticide® Telephone Cleaning Wipes

- Disinfecting
- EPA Registered

Wipes clean and disinfect hard non-porous surfaces. Ideal for telephones, earphones, and other telecommunications equipment. 135 pre-moistened wipes (6" x 6.75") per canister.

Part No.	Model	Description	Price
418-505	TWC135	135 Wipe Canister	\$12.20

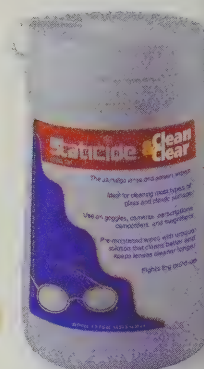


ACL Staticide® Clean & Clear Optical Wipes

Quickly Removes Dust, Oils and Contaminants

Cleans most types of glass, plastic and lenses including microscopes, magnifiers, goggles, cameras, binoculars, and camcorders. 135 pre-moistened wipes (6" x 7.5") per canister.

Part No.	Model	Description	Price
418-504	CCW135	135 Wipe Canister	\$12.20



TECHSPRAY

Pre-Saturated Alcohol Wipes

General Purpose Cleaner in Convenient Packaging

- 99% pure isopropyl alcohol
- Safe on plastics
- Rapidly evaporating
- Zero residue

Cleans tape heads, removes flux, light oils and white mineral residue. Anti-static pop-up dispenser. Come 48/pkg or 100/pkg.

Part No.	Model	Description	Price
163-113	1610-DSP	Alcohol Wipes, 48/Pkg.	\$12.75
423-433	1610-100DSP	Alcohol Wipes, 100/Pkg.	\$18.55



ITW Chemtronics®

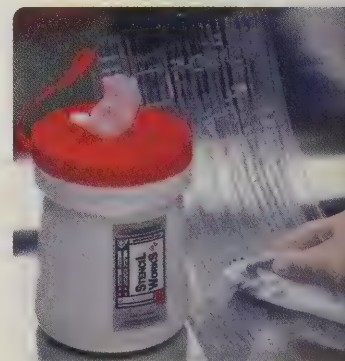
Stencil Works™ IPA Presaturated Stencil Wipes

Removes Solder Paste, Inks and Other Contaminants on SMT Stencils

- Regular cleaning strength
- Safe on plastics
- Low odor
- VOC 70.00
- Flammable
- Slow drying
- ODP 0.00

Ideal for touch-up and cleaning of automatic and semi-automatic printer stencils. Each container has 100 pieces of 6" x 9" pop-up sheets that will not tear, shred, unravel or lint.

Part No.	Model	Description	Price
409-539	SIP100P	Presaturated Stencil Wipes	\$32.40



Chemtronics™ Optic Prep™ Presaturated Wipe

Pre-moistened Lens-Grade Tissue for Cleaning Optical Surfaces

- Compatible with most plastics
- Flammable

Safely cleans and polishes optical surfaces, lenses, photographic equipment, CRT screens and equipment. Mild non-abrasive solvent quickly removes dust, oils and contaminants. Evaporates quickly and leaves no residue. Not for use with Plasma or LCD screens. Package contains 50, 4" x 8.25" pads.

Part No.	Model	Description	Price
127-734	CP410	Optic Prep Presaturated Wipe	\$16.90

Texpads®

Disposable pads presaturated with 91% isopropyl alcohol and 9% deionized water. Texpads feature the most lint-free applicator available and are ideal for removing oxide and particulates from tape heads and other magnetic media without recontaminating components. 80 pads per box.

Part No.	Model	Description	Price
127-991	TX801	Texpads®	\$21.50

PERMATEX INDUSTRIAL

Super Lube® Multi-Purpose Lubricant with Teflon

Perfect for Hi-Tech Assemblies Subject to Heat and Friction

- Contains no petroleum products
- Not subject to oxidation
- Effective from -10°F to 500°F
- Odorless, non-toxic & non-corrosive
- Will not harm plastics, paint, cloth or rubber

Part No.	Model	Description	Price
121-464	82333	Pocket Oiler, 0.25 oz.	\$3.75
401-417	20029	Aerosol, 11 oz.	\$6.50

These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.

Chemtronics™

Chempad™ Presaturated Wipe

General Purpose Lint-Free Cleaning Wipe

- Mild cleaning solution
- Non-abrasive wipe
- Quickly removes dust, oils & contaminants

Ideal cleaning wipe for computers, office equipment, fiber optic connectors and instruments, and electronic equipment. Cleans dirt, oxides and oil from magnetic tape heads. Evaporates completely. Leaves no residue. Package contains 50, 4" x 3" wipers.

Optic-Pad™

Disposable lint-free pad presaturated with special solvent for cleaning/polishing Optical grade surfaces. Non abrasive Optic-Pad™ is made from the finest-grade lens tissue. The pad's solvent dries rapidly and is ideal for use on lenses, machine optics, and photographic equipment, 100 pads per box.

Part No.	Model	Description	Price
127-999	TX811	Optic-Pad	\$23.70



Canned Air High Precision Air Duster

Economical Duster for Mechanical and Electronic Assemblies

- Remove dust & lint
- Ozone-safe
- Non-Flammable
- Leaves no residue
- Delivers between 70 & 40 psi

Part No.	Description	Price
419-500	10 oz. Can	\$4.95



GAIG DeoxIT™

Deoxidizer, Cleaner, Lubricant & Preservative for Metal Electrical Connections

- General purpose deoxidizing/cleaning treatment
- Improves conductivity
- Reduces intermittent connections
- Reduces arcing and RFI
- Reduces wear and abrasion
- Temperature Range: -34°C to 200°C

Fast-acting deoxidizing solution that cleans, preserves and lubricates. Works on stationary and moving contacts or connectors. Stabilizes connections between similar and dissimilar metals. Use on all metal surfaces, switches, relays, batteries, plugs and sockets, edge connectors, etc.



DeoxIT™ Pen Applicator

Non-flammable. 100% concentrate.

Part No.	Model	Description	Price
419-188	K-D100P	Pen Applicator	\$15.00

DeoxIT™ Spray

Spray provides light coating of DeoxIT liquid. Does not contain CFC's/HCFC's.

Part No.	Model	Description	Price
417-192	D5S-6	5 oz. Aerosol	\$10.95



DeoxIT™ Precision Dispenser

Non-flammable. 100% concentrate. Comes with precision needle applicator. 25 ml. bottle.

Part No.	Model	Description	Price
388-003	D100L-25C	Precision Dispenser	\$20.00





THE RIGHT TOOLS FOR THE ELECTRONICS BENCHTOP

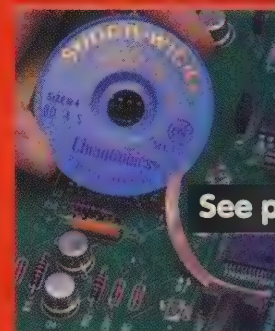
Whether you're at the benchtop, in assembly or out in the field, ITW Chemtronics has a full range of high quality tools to cover all your electronics and electrical needs.

Chemtronics® has everything you need to clean, test, protect or repair your products. From conveniently packaged dusters, cleaner degreasers, contact cleaners and flux removers to freeze sprays, swabs and wipes.



See pages 475 - 479

Soder-Wick®, the world's leading brand of desoldering braid, is the fastest, cleanest and safest in the industry. It's available in a variety of widths, lengths and flux types. And now, all 5 and 10 foot braid comes on static dissipative bobbins.

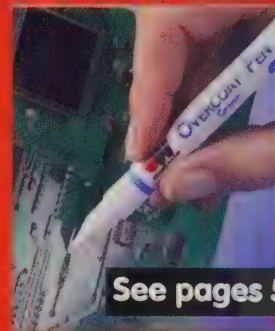


See page 532

CircuitWorks® brand's full range of conveniently packaged products meet all the technicians' needs for electronics rework and prototyping – repairing, cleaning, protecting, lubricating, bonding, and restoring electrical conductivity to circuit boards and components.



So...Do You Have A Complete Set Of Tools?
Look for ITW Chemtronics products in
this catalog to order your
complete set of tools.



See pages 538 - 539

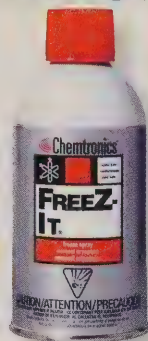
ITW Chemtronics®

Freez-It®

Cools down to -60°F

Engineered for locating thermal intermittent electrical components or cooling printed circuit boards. It contains 100% 1, 1, 2-tetrafluoroethane (HFC134a) and is nonflammable, non-corrosive and leaves no residue.

Part No.	Model	Description	Price
121-961	ES1050	10 oz. Aerosol	\$10.90



Freez-It® Antistat

Cools down to -60°F and is designed for use on components sensitive to static discharge. Use to locate thermal intermittent components, test for trace continuity, and provide heat sink protection during soldering and desoldering. Contains 1,1,2-tetrafluoroethane (HFC134a) and is nonflammable, nonabrasive and leaves no residue.

Part No.	Model	Description	Price
191-884	ES1051	10 oz. Aerosol	\$11.10
160-768	ES1551	15 oz. Aerosol	\$15.70



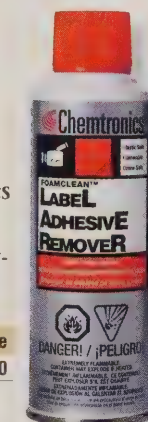
Label Adhesive Remover

Removes Sticky Residue Left by Labels, Stickers, Tape and Wax

- Regular cleaning strength
- Safe on most plastics
- Flammable
- Citrus scent

Safe for use on metals, glass, ceramics and most plastics. Easy-to-use. Spray on and wipe clean when foam collapses. No-drip foam formula makes it ideal for cleaning vertical surfaces.

Part No.	Model	Description	Price
401-493	ES805	6 oz. Aerosol	\$8.50

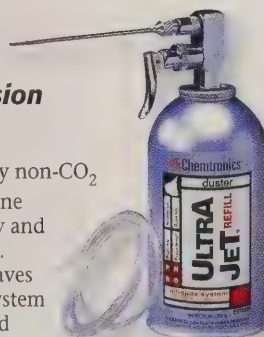


Ultrajet® Precision Dusting System

Reusable Duster System has a Precision Trigger Valve

This high-pressure (has the BIGGEST blast of any non-CO₂ duster) duster contains 100% 1, 1, 2 tetrafluoroethane (HFC134a), ultra-filtered to <0.2 microns, to quickly and safely remove dust, lint and metallic oxide particles. Nonflammable, compatible with most materials, leaves no residue, and will not scratch delicate surfaces. System comes complete with a surgical-grade chrome-plated valve assembly and a steel nozzle for pinpoint cleaning, a flexible 36" extension hose for greater cleaning depth, and a 10 oz. refill can.

Part No.	Model	Description	Price
121-957	ES1020K	Ultrajet Precision Duster System	\$27.60
121-958	ES1020R	Refill For ES1020K (10 oz.)	\$10.10



Duster



Regular strength duster is formulated for all dust removal applications. Contains 100% 1, 1, 2-tetrafluoroethane (HFC134a) and is safe on plastics. Non-flammable and is ozone safe.

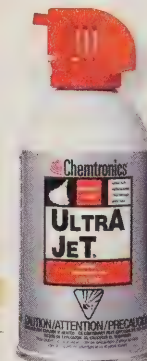
Part No.	Model	Description	Price
419-181	ES1017	Duster, 10 oz. Can	\$4.95



Ultrajet® Precision Duster

High-pressure duster (has the BIGGEST blast of any non-CO₂ duster) is non-flammable, residue-free and won't scratch delicate surfaces. It contains 100% 1, 1, 2-tetrafluoroethane (HFC134a) and is compatible with most materials including sensitive plastics and compounds. 10 oz. can.

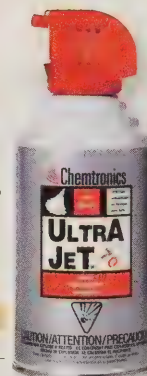
Part No.	Model	Description	Price
121-956	ES1020	Ultrajet® Duster	\$10.60



Ultrajet® 70 Duster

Formulated for all dust removal applications. Instantly removes dirt, dust, oxides, and other airborne particles. Can be used in a wide range of applications including: microcomputers, fax machines, printers, photo equipment, optic lenses, audio/video components, laboratory instruments and clean room bench areas. Non-flammable, non-abrasive with excellent material compatibility. 10 oz. can.

Part No.	Model	Description	Price
121-954	ES1015	Ultrajet® 70 Duster	\$7.70



Static Free™ Plast-N-Glas®

Static Dissipative Cleaner for Transparent Surfaces

- Regular cleaning strength
- Safe on plastics
- Non-flammable
- Mild odor
- VOC 13.20
- ODP 0.00

General purpose anti-static cleaner for use on plastics and glass. It effectively cleans, polishes and eliminates static charges on CRT displays, scopes dial faces, medical instruments, photographic equipment, computer housings and office equipment. Leaves surfaces thoroughly clean and will not stain, streak, smear, scratch or abrade.

Part No.	Model	Description	Price
121-990	ES1668	16 oz. Aerosol	\$8.00



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.



Flux-Off® VZ

The Economical, Non-Ozone Depleting, Non-Flammable Flux Remover

- HCFC-141b free
- Non-flammable
- Regular cleaning strength
- Fast drying

Ideal for removal of all flux types during post soldering applications. Cleans printed circuit boards, component leads, and surface mount devices/pads, screens and stencils. Penetrates to clean hard to reach areas. Leaves no residue.

Part No.	Model	Description	Price
423-453	ES6200	12 oz. Aerosol	\$13.90



Pow-R-Wash™ VZ

The Economical, Non-Ozone Depleting, Non-Flammable Contact Cleaner

- HCFC-141b free
- For use on live circuits
- Non-flammable
- Regular cleaning strength
- Fast drying

Removes encrusted oxides, dirt, carbon and other contaminants from contacts. Excellent dielectric strength. Use on all repair and maintenance contact cleaning. Ideal for metal contacts, plugs, sockets and solenoids. Removes oxidized soils from switches, circuit breakers, motors and armatures. Non-corrosive. Leaves no residue.

Part No.	Model	Description	Price
423-454	ES6300	12 oz. Aerosol	\$12.90



Electro-Wash® VZ

The Economical, Non-Ozone Depleting, Non-Flammable Cleaner/Degreaser

- HCFC-141b free
- Non-flammable
- Regular cleaning strength
- Fast drying

One cleaner for all soil types penetrates to clean hard to reach areas. Evaporates quickly without leaving a residue and has a low odor. Ideal for cleaning printed circuit boards and control systems. Also for maintaining PLCs and removing oils from pneumatic and hydraulic assemblies. Leaves no residue.

Part No.	Model	Description	Price
423-452	ES6100	12 oz. Aerosol	\$13.70



Pow-R-Wash™ NX

Removes Soils from Metal to Metal Contacts

- Extra cleaning strength
- Test on plastics
- Non-flammable
- Low odor
- Fast drying

Penetrates deeply to effectively clean electrical and electronic contacts in electro-mechanical assemblies. Removes oil, grease, dirt, silicone, flux and adhesive. Contains dichlorofluoroethane (HCFC 141B) and an alcohol blend.

Part No.	Model	Description	Price
121-985	ES1602	14.5 oz. Aerosol	\$20.25



New & Improved Formulations are HCFC-141b Free!

Chemtronics has developed new and improved chemistries that provide excellent benefits for your application without using 141b. These formulations are engineered to provide the same great benefits as the original products.

Electro-Wash® NX:

Extra cleaning strength, non-flammable cleaner degreaser.



Kontakt Restorer®:

The one-step, non-flammable contact cleaner and lubricant.



Pow-R-Wash™ NX:

Extra-strength, non-flammable cleaner quickly removes soils from metal-to-metal contacts.

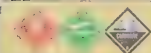


Flux-Off® No Clean:

Powerful flux remover for cleaning no clean fluxes.



Part No.	Model	Description	Price
420-547	ES1611	Electro-Wash NX, 12 oz.	\$18.40
420-551	ES1629	Kontakt Restorer, 12 oz.	\$14.70
420-554	ES1677	Pow-R-Wash NX, 12 oz.	\$23.20
420-549	ES1695	Flux-Off No Clean, 12 oz.	\$17.90



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.

Flux-off® Water Soluble

Cleaner for Water Soluble Fluxes

- Extra cleaning strength
- Safe on plastics
- Mild odor
- Flammable
- Medium drying

This non-chlorinated solvent system incorporates a proprietary blend of alcohols with a CO₂ propellant for superior performance and contains no 1,1,1-trichloroethane or CFCs. Ideal for use on PC boards, relays, switches and other electronic assemblies. Leaves no residue.

Part No.	Model	Description	Price
121-979	ES1530	13.5 oz. Aerosol	\$10.20



Flux-Off® Heavy Duty

Removes Age Hardened No Clean and Rosin Fluxes

- Extra, extra cleaning strength
- Test on plastics
- Slight odor
- Non-flammable
- Fast drying

Solvent will also effectively remove soldering oils, organic handling oils, dirt, grease and molding compounds. Compatible with most materials used in PCB fabrication, except acrylics, ABS resins, polycarbonates, polystyrenes and other resins. Leaves no residue.

Part No.	Model	Description	Price
407-263	ES1631	12 oz. Aerosol	\$27.30



Flux-Off® CZ

Cleaner for Rosin Based, No Clean and Water Soluble Fluxes

- Regular cleaning strength
- Safe on plastics
- Slight odor
- Non-flammable
- Fast drying

Ideal for use on PC boards, SMD pads, sensitive components, component leads, thru-hole and SMD devices. Contains Cirozane™ which is based on new ozone-safe HFE technology. Leaves no residue.

Part No.	Model	Description	Price
403-435	ES7200	12 oz. Aerosol	\$29.80



Flux-Off® Rosin

Cleaner for Rosin and Rosin Based No Clean Fluxes

- Extra cleaning strength
- Safe on plastics
- Mild odor
- Flammable
- Fast drying

Low surface tension quickly penetrates and removes harmful residues in tight-tolerance areas. Ideal for use on SMD pads, relays, chip carriers and PC boards. Leaves no residue.

Part No.	Model	Description	Price
121-959	ES1035	10 oz. Aerosol	\$12.20



Flux-Off® Rosin BrushClean System

Cleaner for Rosin and Rosin Based No Clean Fluxes

- Extra cleaning strength
- Safe on plastics
- Mild odor
- Flammable
- Fast drying

Low surface tension quickly penetrates and removes harmful residues in tight-tolerance areas. Ideal for use on SMD pads, relays, chip carriers and PC boards. Leaves no residue.

Part No.	Model	Description	Price
400-088	ES835B	5 oz. Aerosol	\$7.20



Flux-Off® No Clean Plus

Does Not Contain HCFC-141B

- Extra cleaning strength
- Flammable
- Test on plastics
- Fast Drying

Powerful, economical flux remover cleans encrusted flux from hard to reach areas. Use on PC boards, sensitive circuit components, leads, pads, chip carriers, thru hole and smt devices. Leaves no residue.

Part No.	Model	Description	Price
420-532	ES1696	12 oz. Aerosol	\$11.50



Flux-Off® No Clean

Cleaner for No Clean Fluxes

- Extra cleaning strength
- Test on plastics
- Low odor
- Non-flammable
- Fast drying

Ideal for removing age-hardened flux and flux in hard-to-reach areas. Contains Dichlorofluoroethane (HCFC 141B) and ethyl lactate. May be used in ultrasonic cleaners.

Part No.	Model	Description	Price
191-848	ES1692 *	14.5 oz. Aerosol	\$20.20

*Commercial Use only. Federal ID# Required.



For an expanded selection of cleaners & aerosols visit contacteast.com or jensentools.com

These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.



Electro-Wash® PX

Extra Strength General Purpose Cleaner/Degreaser

- Extra cleaning strength
- Safe on plastics
- Medium odor
- Flammable
- Fast drying

Ideal for use with electronic and electrical equipment including PC boards, contacts, controls and motors. Removes encrusted dirt, grease and fluxes (R, RMA, RA and synthetic). Leaves no residue. Safe for most substrates.

Part No.	Model	Description	Price
121-967	ES1210	12.5 oz. Aerosol	\$13.50



Contact Restorer®

Cleans, Lubricates and Extends the Life of Electrical Contacts

- Extra cleaning strength
- Test on plastics
- Low odor
- Non-flammable
- Fast drying

One-step contact cleaner and lubricant is ideal for use on relays, solenoids, switches, circuit breakers, potentiometers, interface connectors and audio/video components. May be applied while equipment is in use.

Part No.	Model	Description	Price
121-986	ES1628	16 oz. Aerosol	\$24.85

Commercial Use only. Federal I.D. # Required.



Electro-Wash® NX

Extra Strength, Non-Flammable Cleaner/Degreaser

- Extra cleaning strength
- Test on plastics
- Low odor
- Non-flammable
- Fast drying

General purpose cleaner removes fluxes, oil, grease, silicone and adhesives. Contains dichlorofluoroethane (HCFC 141B) and an alcohol blend. Not recommended for use on soft plastics.

Part No.	Model	Description	Price
121-984	ES1601	14.5 oz. Aerosol	\$19.20

Commercial Use only. Federal I.D. # Required.



Silicone Konform® SR

Silicone Coating for Maximum Flexibility and Protection from Extreme Temperatures

- Stable from -85°F to 390°F
- Dielectric strength of 1100 volts/mil
- Meets MIL-I-46058C, Type SR

This transparent silicone coating provides ideal protection for both rigid and flexible printed circuit boards. Resists moisture, salt, fungus, corrosive vapors and withstands heat generated by electronic circuitry as well as climatic temperatures. Contains a UV indicator for thorough quality control inspection.

Part No.	Model	Description	Price
121-940	CTSR-12	10 oz. Aerosol	\$18.20



Pow-R-Wash™ CZ

Cleaner for Use on Powered-Up Contacts

- Regular cleaning strength
- Safe on plastics
- Slight odor
- Non-flammable
- Fast drying

Solvent cleaner for every phase of electronics and electrical contact maintenance, including metal contacts, relays, circuit breakers, fuse blocks, potentiometers, PC boards, motors and generators. Utilizes Cirozane™ a new ozone-safe HFE technology. Leaves no residue.

Part No.	Model	Description	Price
403-436	ES7300	12 oz. Aerosol	\$29.60



Acrylic Konform® AR

Acrylic Coating for Insulation Against High-Voltage Arcing and Shorts

Clear acrylic coating prevents arcing shorts and also provides a hard durable protective barrier against humidity, salt, corrosive vapors and fungus. Increases the life of electronic products and will not discolor over time under normal use. Contains a UV indicator for thorough quality control inspection.


Part No.	Model	Description	Price
130-405	CTAR-12	11.5 oz. Aerosol	\$15.10



For an expanded selection of cleaners & aerosols visit contacteast.com or jensentools.com



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.



The Mighty Pen

For Use on All Repair, Maintenance and Manufacturing Applications

- Zaps adhesives, tape and label residues
 - Eliminates ink and pencil marks
 - Fast acting conformal coating removal
 - Simple to use, easy to carry
 - Mild citrus aroma
 - Fast drying
 - Low toxicity
- Ideal for quick, convenient and precise spot removal of ink stains, label adhesives, conformal coatings and stubborn-to-remove soils from printed circuit boards and many other surfaces.

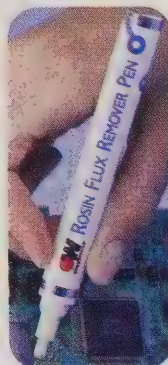
Part No.	Model	Description	Price
420-118	CW3700	The Mighty Pen	\$6.50

Flux Remover Pens

Removes Flux in Seconds

For precise removal of flux from printed circuit boards. Completely removes flux in seconds and dries fast. Chisel shaped fiber tip permits precision spot cleaning of printed circuit boards following repair or rework.

Part No.	Model	Description	Price
408-397	CW9100	"No-Clean" Flux Remover Pens	\$7.60
408-398	CW9200	Rosin Flux Remover Pen	\$7.20



Conformal Coating Remover Pen

Remove Silicone, Acrylic & Urethane Coatings from PCBs

- Spot cleans tight tolerance areas
- Dispenser provides controlled & exact application
- Evaporates quickly
- Provides low surface tension for superior wetting

Removes most types of conformal coatings. 0.32 oz pen.

Part No.	Model	Description	Price
408-374	CW3500	Conformal Coating Remover Pen	\$9.70



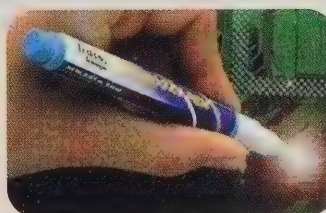
TECHSPRAY

Conformal Coating Remover Pen

Non-Corrosive, Fast-Stripping & Dries Quickly

Removes conformal coating including acrylic, urethane, and silicones.

Part No.	Model	Description	Price
413-714	2510-N	Conformal Coating Remover Pen	\$6.65



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.

ITW Chemtronics

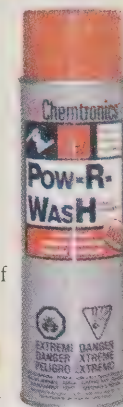
Pow-R-Wash® Cable Cleaner

Does Not Contain HCFC-141b

- Extra cleaning strength
- Safe on plastics
- Medium drying
- Dielectric breakdown 62kV

Cable and contact cleaner removes dirt, adhesives, gel and oxidants from cable terminations. Removes grease and oils from equipment, tools, generators, compressors and mechanical tools of all types. Ideal for use on metal contacts, potentiometers and fuse blocks. Leaves no residue.

Part No.	Model	Description	Price
420-557	ES2425	18 oz. Aerosol	\$7.20



ITW Chemtronics

QbE™ Dry Fiber Optic Wipe

Precision Wipe for Cleaning Fiber Optic End-Faces

- Won't shred or tear

Effective for "wet" or "dry" connector cleaning. Heavy-duty lint-free wiping material won't shred or tear. Tough enough for buffer-gel; soft enough for end faces. Cleaning platen provides the ideal cleaning surface. Convenient size, 3" x 3", fits easily in tool cases or work benches. Come 200 wipes per roll.

Part No.	Model	Size	Wipers/Pkg.	Price
420-542	QbE	3" x 3"	200/Roll	\$35.60



ITW Chemtronics

Electro-Wash® PX Fiber Optics Cleaner

Ideal Cleaner for Fiber Optic Connectors and Cables

- Extra cleaning strength
- Flammable
- Fast drying
- Safe on plastics

Quickly cleans fiber optic end-faces and connectors. Use as a one-step buffer gel remover. Cleans a wide range of soils.

Part No.	Model	Description	Price
420-556	ES810	5 oz. Aerosol	\$7.40



TidyPen®

Cleaning Pen

- Removes flux
- Removes labels
- Removes tape residue

Ideal for cleaning small surfaces on which traditional cleaners are messy or inconvenient. Dissolves tape residues from circuit boards, removes labels from EPROMs, and defluxes hard-to-reach solder joints. Contains 13 mil. of a non-toxic, biodegradable organic solvent that is ozone-safe. Easy-to-use. Pump the dispensing tip 3 or 4 times against the object to be cleaned. The cleaner will run down the tip onto the surface. Wait a few moments for the dissolving action of the cleaner to take effect. Wipe clean. Leaves no residue. Solvent compatibility should be checked when used on soft plastics and rubber.

Part No.	Type	Description	Price
121-938	CP51	Cleaning Pen	\$6.25
121-937	CP40	Replacement Tips (25/pkg)	\$14.15





HCFC-141b Free Cleaning Products

Micro Care has developed cleaning chemistries that do not contain HCFC-141b. These cleaners offer optimal cleaning results and feature Vertrel® CF technology from DuPont, the people who really know cleaning.

SuprClean™

Cleaner for Rosin Fluxes/Pastes, Light Oils and Grease

- Does not contain HCFC-141b
- Aggressive cleaning strength
- Test on plastics
- Non-flammable
- Low odor
- Fast drying

Featuring Vertrel® from DuPont this cleaner is optimal for ozone-safe benchtop-level deflusing and degreasing. Excellent replacement for HCFC 141b and 1,1,1-TCA.

Part No.	Model	Description	Price
410-283	MCC-SPR	12 oz. Aerosol	\$14.35



Flux Remover C

Cleaner for SMT Fluxes and Pastes

- Does not contain HCFC-141b
- Optimal cleaning strength
- Safe on plastics
- Non-flammable
- Low odor
- Fast drying

Designed for all types of electronics, can be used on through-hole boards, SMT designs, BGA chips, hybrid circuits, cable and connectors. Features Vertrel® CF from DuPont and works well on most fluxes and pastes, light oils and grease. Test before use with "no clean" fluxes. Non-corrosive and leaves no residue.

Part No.	Model	Description	Price
416-734	MCC-FRC	12 oz. Aerosol	\$11.80



Contact Cleaner C

Cleaner for Energized Circuits

- Does not contain HCFC-141b
- Mild cleaning strength
- Safe on plastics
- Non-flammable
- Low odor
- Fast drying

Designed to safely be used on energized circuits ("hot") and circuits which have been powered-off. Features Vertrel® CF technology from DuPont for tough cleaning applications, such as hot motors, arc-throwing electro-mechanical relays, PCB testing systems and troubleshooting operating electrical devices. Leaves no residue and is non-corrosive.

Part No.	Model	Description	Price
416-733	MCC-CCC	12 oz. Aerosol	\$12.50



Heavy Duty Degreaser C

Cleaner for Oils and Grease

- Does not contain HCFC-141b
- Aggressive cleaning strength
- Test on plastics
- Non-flammable
- Low odor
- Fast drying

Suitable for all types of metals, substrates and rugged plastics. Features Vertrel® CCA from DuPont and can easily remove most oils, light grease, lubricants and coatings based on urethane and silcones. Cleaner also works well on fluxes, inks and paints. Non-corrosive and leaves no residue.

Part No.	Model	Description	Price
416-735	MCC-HDC	12 oz. Aerosol	\$12.95



Cleaners that contain HCFC-141b are still available for use. Please see the selection below for Micro Care cleaners that are available.

Genesolv® 2004

Removes All Rosin Fluxes and Most Synthetic Fluxes

- Contains HCFC-141b
- Optimal cleaning strength
- Test on plastics
- Non-flammable
- Low odor
- Fast drying

A blend of Dichlorofluoroethane, Methanol, Nitromethane and a Tetrafluoroethane propellant. Specifically designed to replace CFCs, it is an ideal replacement for Genesolv DMS, Freon TMS or similar products.

Part No.	Model	Description	Price
122-020	MCC-2004	12 oz. Aerosol	\$11.50



HyperClean™ Precision Cleaner

Cleaner for Grease, Dust, Light Oil & Rosin Fluxes

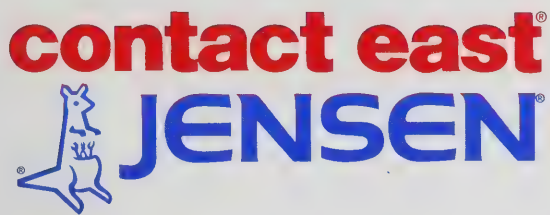
- Contains HCFC-141b
- Powerful cleaner
- Test on plastic
- Non-flammable
- Low odor
- Medium drying

Suitable for all types of electronics such as through hole, and surface mount assemblies or even hybrids. Leaves no residues.

Part No.	Model	Description	Price
122-036	MCC-HYP	12 oz. Aerosol	\$18.95



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.



Electronic Consulting Services, Education and Training

Contact East/Jensen Tools can provide the solutions you need for lead-free implementation, SMT process troubleshooting, process review, process set-up, in-plant training and a wide variety of manufacturing services due to our exclusive offering of products from ITM Incorporated a leader in the field of technical consulting.

Businesses Served - OEM and EMS printed circuit board assemblers and manufacturers, equipment and material suppliers.

For additional information on our electronic consulting services, education and training please visit our website at:

contacteast.com/valueservices/consulting.asp

About ITM Consulting

Contact East's consulting and training services are provided by ITM Consulting.



Founded in 1993, ITM Consulting is dedicated to providing strategic management and technical solutions to advance their client's performance, competitive edge, and understanding of their unique market position and scope.

- **Lead-Free On-Site Education**
- **Lead-Free Road-Mapping/Consulting**
- **SMT Process Troubleshooting**
- **SMT Assembly Equipment Evaluation and Qualification**
- **SMT Design for Manufacturability – for the Designer**
- **SMT Design for Manufacturability – for the Assembler**
- **SMT Manufacturing – Process, Equipment and Materials**
- **High Reliability SMT Manufacturing**
- **SMT Reflow and Wave Soldering**
- **SMT Outsourcing Considerations**
- **Emerging Technologies – Packages, Equipment and Processes**
- **Stencil Printing and Inspection**
- **No-Clean Implementation**

Lead-Free On-Site Education

Seminars provide your management, operations and engineering team critical information on lead-free alloys, reliability issues, process implications, operations effects, current legislation and regional issues.

Lead-Free Road Mapping/Consulting

Comprehensive service identifies the steps that need to be taken when considering implementation of a lead-free process. Service includes overview of lead-free requirements, understanding of lead-free alloys, changes to your assembly process and business operations, changes in components, paste storage, printing, reflow, wave soldering, inspection and test, rework and repair and field service.

SMT Process Troubleshooting

Identify, define and correct manufacturing defects, whether it's in-house or supplier related in materials printing, placement, soldering, inspection handling and/or through-hole.

SMT Assembly Equipment Evaluation and Qualification

Provide assistance including comparative matrices of automatic equipment used in SMT and printed circuit board assembly for a single piece buy or complete assembly line.

SMT Design for Manufacturability

For the Designer – On-site course provides designers of electronic products with a broad overview of the SMT assembly processes, the equipment used and the design issues involved.

SMT Design for Manufacturability

For the Assembler – Taught on-site, this course gives participants an overview of SMT assembly processes and the design issues associated with manufacturing SMT assemblies. Participants learn how the design affects manufacturing capability and yield — and, if analyzed early enough, how manufacturing capabilities should affect the design.

SMT Manufacturing

Process, Equipment and Materials – These on-location courses give attendees a solid comprehension of the each step of the SMT assembly processes and as well as the materials used. High yields in surface mount PCB assembly manufacturing can best be attained by understanding and successfully implementing the appropriate process considerations.

High Reliability SMT Manufacturing

Advanced on-site course for high yield PCB assembly. Covers pre-process requirements and considerations including design, fabrication, solder paste and components. Addresses solder paste deposition and equipment parameters. Explores all aspects of reflow soldering, this includes profiling, process and equipment.

SMT Reflow and Wave Soldering

This comprehensive course covers all solder processes – wave and reflow technologies including convection, convection/IR, area conductive and condensation inert (Vapor Phase). A detailed look at thermal considerations (including profiles) and metallurgical and chemical requirements is also provided.

SMT Outsourcing Considerations

In-house service provides an understanding of the outsourcing process from start to finish. Review with your team PCB design principles, basic assembly processing, supplier selection concerns, and the fundamentals of maintaining a successful and on-going relationship with the chosen suppliers.

Emerging Technologies

Packages Equipment and Processes – In house course covers trends in packaging, materials and processing for manufacture PCB assembly.

Stencil Printing and Inspection

One day in-house course will give the participant an overview of the assembly processes and a comprehension of how the stencil printing and inspection processes fit in the overall electronics assembly line.

No-Clean Implementation

One day in-house course is designed to give the participant a good understanding of the no-clean solder process. Topics covered are the composition and characteristics of no-clean pastes and fluxes, equipment and process parameters along with risks and demands of the process.

For additional information on our electronic consulting services, education and training please visit our website at:

www.contacteast.com



Benchtop Cleaning System

Gets Boards Cleaner, Faster & with Less Solvent Waste

- Eliminates fumes, evaporation & spills
- Eliminates the re-use of contaminated solvent
- Improves touch-up cleaning quality and safety



The "Trigger Grip" solvent applicator together with Micro Care aerosol solvents, eliminates the fumes, evaporation, spills, and re-use of contaminated solvent that go along with the open jar and brush method of spot cleaning circuit boards. When trigger is squeezed, as shown, a low pressure stream of pure solvent is released from aerosol container through the natural bristle brush of the "Trigger Grip". Simultaneously, operator gently scrubs surface while rinsing away flux residue. Hose from "Trigger Grip" hand piece twist-locks into the nozzle of any Micro Care aerosol solvent can.

VeriClean™

Cleaner for Rosin and No Clean Fluxes and Pastes

- Optimal cleaning strength
- Safe on plastics
- Flammable
- Low odor
- Fast drying

Siloxane-based cleaner. Requires no rinsing.

Part No.	Model	Description	Price
401-402	MCC-DC1	10 oz. Aerosol	\$14.70



IsoClean™

Cleaner for Water Soluble (OA) Fluxes and Pastes

- Mild cleaning strength
- Safe on plastics
- Flammable
- Low odor
- Medium drying

Anhydrous-grade, 100% pure isopropyl alcohol. Meets Mil-S-2000 and WS6536.

Part No.	Model	Description	Price
122-037	MCC-BAC	12 oz. Aerosol	\$9.75



ProClean™

Cleaner for Rosin and No Clean Fluxes and Pastes

- Mild cleaning strength
- Safe on plastics
- Flammable
- Low odor
- Medium drying

A blend of Proprietary Denatured Alcohol, Isopropanol and a Tetrafluoroethane propellant for cleaning highly active rosin fluxes, ionic soils and particulate matter.

Part No.	Model	Description	Price
122-043	MCC-PRO	12 oz. Aerosol	\$6.90



Bioact®

Cleaner for Water Soluble (OA) Fluxes and Pastes

- Aggressive cleaning strength
- Test on plastics
- Flammable
- Citrus scent
- Slow drying

Formulated of Terpene Hydrocarbon solvent with Tetrafluoroethane propellant. Does not need a water rinse. Designed to replace traditional CFC solvents. Non-Toxic.

Part No.	Model	Description	Price
122-026	MCC-EC7M	10 oz. Aerosol	\$15.15



Trigger Grip Applicators

Get Boards Cleaner Faster with Less Solvent & Less Work

Designed for use with MicroCare cans only, these applicators weigh less than one ounce, and allow you to gently remove contaminants from the board while fresh cleaner is applied. This gets boards cleaner faster, with less solvent and less work. Model MCC-ESD is ESD-safe and complies with MIL-STD-2000. Both models come complete with a 3 ft. armored feeder tube (cannot be damaged by hot solder tips) and an ESD-safe natural bristle brush (RBNB).

Optional brushes and and syringe needle described below.

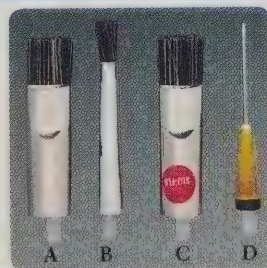
Part No.	Model	Description	Price
122-028	MCC-ESD	ESD Trigger Grip Applicator	\$41.20



Spray-Thru Brushes and Syringe Needles

A selection of brush tips suitable for removing contaminants. Needles can be used for high impact cleaning even under components. 5/package.

Style	Description	Part No.	Model	Price
A	Brush, Natural Bristle, ESD-safe	122-071	RBNB	\$15.55
B	Brush, Natural Bristle, ESD-safe SMD application	122-073	SMB	\$21.40
C	Brush, Natural Bristle, ESD-safe Sio-Flo application	122-072	RBNB2SF	\$17.90
D	Solvent Syringe, .035" O.D., Yellow	122-076	SR-035	\$19.40



ESD-Safe Bench Mounting Kit

Reduces Clutter on Your Workbench

Holds can of solvent and Trigger Grip applicator.

Part No.	Model	Description	Price
122-024	MCC-BK	ESD-Safe Bench Mounting Kit	\$14.05





Micro Blast™ High Precision Air Duster

- VOC 0.00
- ODP 0.00

Contains 100% 1,1,2-tetrafluoroethane (134a), an ozone-safe HFC that delivers between 70 and 140 psi of pressure to remove dust and contamination without damaging sensitive surfaces. It can also be used to remove slow-evaporating, ozone-safe circuit cleaners for electronics. Non-flammable and leaves no residue.

Part No.	Model	Description	Price
122-025	MCC-DST	10 oz. Can	\$7.15
411-806	MCC-AIR	14 oz. Can	\$9.90



MicroFreez™

- VOC 0.00
- ODP 0.00

Contains 100% 1,1,2-tetrafluoroethane (HFC134a) that delivers instant chilling without CFCs or HCFCs. Cools components to -40°F (-40°C) in seconds, speeding both diagnostic and repair processes. 10 oz. can.

Part No.	Model	Description	Price
122-030	MCC-FRZ	MicroFreez™	\$7.15
122-031	MCC-FRZA	Anti-Static MicroFreez™	\$7.15



Isopropyl Alcohol

- VOC 99.80
- ODP 0.00

Mild cleaning results from this ultra-pure isopropanol. Electronic grade, 99% pure isopropyl alcohol cleans R, RA, RMA, SA fluxes, and other contaminants. ESD-safe. Available in 1 and 5 gallon "cubitainers" with a built-in dispensing spigot.

Part No.	Description	Price
111-683	Isopropyl Alcohol, 1 Gal.	\$15.75
111-684	Isopropyl Alcohol, 5 Gal.	\$45.05

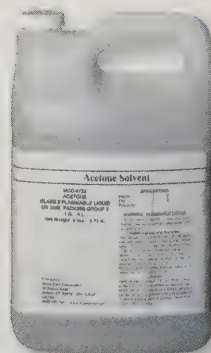


Acetone

- VOC 0.00
- ODP 0.00

Semiconductor grade.

Part No.	Description	Price
407-718	1 Gallon Plastic Pail	\$30.30
416-789	5 Gallon Plastic Pail	\$152.30



Safe & Portable Electronic Cleaners

Non-Regulated - Can Ship by Air

- Non-hazardous
- Non-flammable
- Ozone safe
- Portable - only 3 oz.

Cleaners feature a unique pump dispenser which contains a powerful safe chemistry. This combination allows these cleaners to ship safely by ground or air transportation. Small and portable they are ideal for field service tool kits and maintenance packs.

Heavy Duty Flux Remover

- Fast acting
- Cleans circuit boards, printed wiring assemblies & electronics

Cleaner quickly removes flux residues and easily cleans dust, oil and grime from circuit boards and electronic assemblies. Safe to use on most materials, including most plastics, glass, ceramic, metal and cured epoxy surfaces. Dries quickly without leaving a residue.

Part No.	Description	Price
420-575	Heavy Duty Flux Remover, 3 oz.	\$9.25



Heavy Duty Degreaser

- Fast acting
- Cleans oils, grease & grime

Cleaner easily cleans heavy oil, grease, fingerprints and grime from machine parts, mechanical assemblies and electronic components. Safe to use on most materials, including most plastics, glass, ceramic, metal and cured epoxy surfaces. Dries quickly without leaving a residue.

Part No.	Description	Price
420-574	Heavy Duty Degreaser, 3 oz.	\$8.20



Contact Cleaner

- Fast acting
- Non-corrosive
- Plastic safe
- Cleans motors, electrical contacts & switches

Versatile cleaner easily removes oil, grit and grime from motors, switches, contacts, rheostats and electronic controls. Safe to use on most materials, including most plastics, glass, ceramic, metal and cured epoxy surfaces. Dries quickly without leaving a residue.

Part No.	Description	Price
420-576	Contact Cleaner, 3 oz.	\$8.75



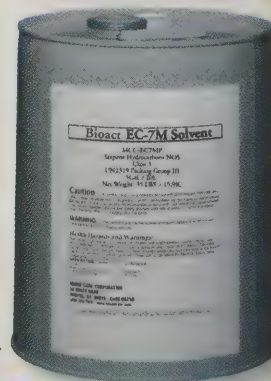
Bioact® EC7M

Cleaner for Water Soluble (OA) Fluxes and Pastes

- Aggressive cleaning strength
- Safe on plastics
- Flammable
- Medium odor
- Medium drying
- VOC 90.00
- ODP 0.00

Formulated of Terpene Hydrocarbon solvent with Tetrafluoroethane propellant. Does not need a water rinse. Designed to replace traditional CFC solvents. Non-toxic.

Part No.	Description	Price
122-027	5 Gallon Metal Pail	\$309.25



Freeze Spray

Helps Test for Faulty Components

- VOC 0.00
- ODP 0.00

100%, ozone-safe 1,1,2-tetrafluoroethane (HFC-134a) instantly chills to -62°F. Can be used as a troubleshooting aid for intermittently faulty components, and also for detecting cold solder joints, cracks in circuit boards, and oxidized junctions. Non-flammable, non-conductive, evaporates quickly and leaves no residue.

Part No.	Model	Description	Price
121-866	1672-10S	10 oz. Aerosol	\$6.61



Envi-Ro-Tech™ Anti-Static Freeze Spray

Test Static Sensitive Components

- VOC 0.00
- ODP 0.00
- Non-Flammable

A rapidly evaporating HFC-134a freezer that instantly chills down to -40°F. Has a zero ozone depletion factor and is designed for use as a troubleshooting aid in static sensitive areas. Ideal for use on intermittently faulting capacitors, resistors, semi-conductors and other defective components. Leaves no residue.

Part No.	Model	Description	Price
121-878	1747-10S	10 oz. Aerosol	\$8.00



Fine-L-Kote™ SR Silicone Conformal Coating

Excellent Moisture and Chemical Resistance

- Meets MIL-I-46058C Type SR
- VOC 36.30
- ODP 0.00

A type SR silicone resin conformal coating that has excellent moisture and fungus resistance properties and is UL recognized. Material flexibility allows for vibration movement, and rapid changes in temperature. A durable coating that offers chemical resistance and is recommended for harsh environments. Contains Opti/Scan to allow for black light inspection. Coated boards can be reworked by applying soldering iron directly to coating.

Part No.	Model	Description	Price
408-902	2102-12S	12 oz. Aerosol	\$17.75



Duster

Ultra-Pure for Critical Environments

- VOC 0.00
- ODP 0.00

Formulated with 100% HFC-134a (1,1,2-tetrafluoroethane), an ozone-safe, exceptionally pure inert gas that removes microscopic contaminants, lint, dust, metal oxide deposits, and other soils. Non-abrasive, moisture-free, non-flammable and leaves no residue.

Part No.	Type	Description	Price
121-864	1671-10S	10 oz. Aerosol	\$6.00
174-345	1671-15S	15 oz. Aerosol	\$10.75



Duster with Chrome Trigger

- Multi-directional spray attachment

Formulated with HFC-134a, this exceptionally pure, moisture-free, inert gas removes particles without the use of harmful solvents. Removes microscopic contaminants, lint, dust, metallic oxide deposits and other soils. Chrome trigger allows for use in static sensitive areas.

Part No.	Model	Description	Price
806-670	1671-10SK	Duster w/Chrome Trigger	\$35.70
121-863	1671-10RS	10 oz. Duster Refill for 1671-10SK	\$6.68
130-399	1928	Replacement Chrome Trigger Valve	\$29.60



Vortex 360° Duster

Spray In Any Position - Even Upside Down

- VOC 0.00
- ODP 0.00

This high velocity duster allows you to spray in any position - even upside down without expelling liquid. Formulated with 100% HFC-134a, an ozone safe, exceptionally pure inert gas that quickly dislodges dust and particles from hard-to-reach areas. Non-flammable, safe on plastics and leaves no residue.

Part No.	Model	Description	Price
416-731	1697-8S	8 oz. Aerosol	\$9.01



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.



TECHSPRAY™

**High Performance Products for
Electronic Assembly and Repair**

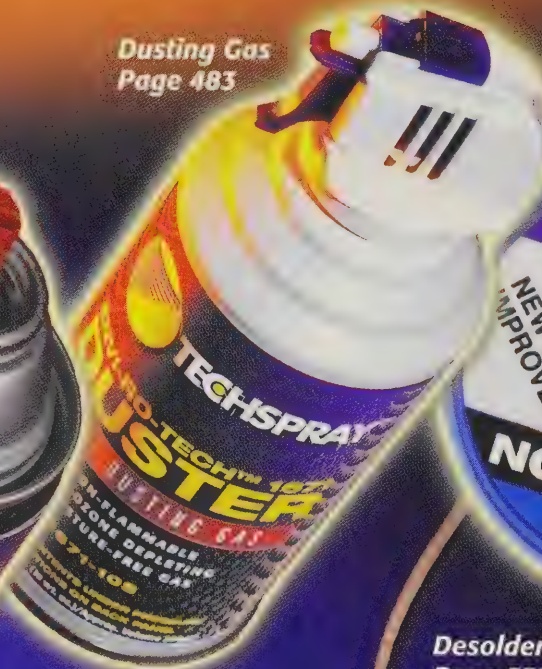


TECHSPRAY
BRANDED PRODUCTS

Aerosol Solvents
Pt. No. 485-486



Dusting Gas
Page 483



New Improved!



Desoldering Braid
Page 533

PLATO
BRANDED PRODUCTS

Hand Tools
Page 250

Soldering Tips
Pt. No. 524-525



TECHSPRAY

G3™ Cleaners

Drop-In Replacements for HCFC-141b

- Non-Ozone Depleting
- Non-Flammable
- Safe on most Plastics
- 32% More Cleaning Power
- Rapid Evaporation



Contact Cleaner G3™

Ideal Drop-In Replacement for HCFC-141b

- Non-flammable

Formulated as a direct replacement for all contact cleaners containing HCFC-141b. This precision blend is the optimal choice for removing oils, greases, silicones, dirt and grime from all types of switches, relays, contact pads and other electrical connections. Rapidly evaporating and safe on most plastics.

Part No.	Model	Description	Price
420-131	1632-16S	16 oz. Aerosol	\$16.20



Kleen-It™ G3™ Cleaner/Lubricant

Non-Flammable Precision Cleaner/Lubricant

- Does not contain HCFC-141b
- Cleans & lubricates
- Stops corrosion
- Silicone lubricant

A non-flammable cleaner/lubricant formulated to quickly penetrate and flush away grease, dirt, oil, dust, and oxidized surface metals leaving a thin protective coating of silicone to lubricate and protect against corrosion.

Part No.	Model	Description	Price
423-450	2421-12S	12 oz. Aerosol	\$15.70



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.

Blue Shower G3™ Cleaner/Degreaser

Ideal Drop-In Replacement for HCFC-141b

- ODP 0.00
- Non-flammable

Formulated as a direct replacement for all cleaner/degreasers containing HCFC-141b. Designed for precision cleaning of polar and non-polar soils including hand and other solder oils, greases, silicones, fluxes and other similar contaminants. Effective on cleaning electronic equipment, machinery, metal parts, and other general cleaning applications. Rapidly evaporating and safe on most plastics.

Part No.	Model	Description	Price
420-130	1630-16S	16 oz. Aerosol	\$16.15



Flux Remover G3™

Ideal Drop-In Replacement for HCFC-141b

- Approved for lead-free processes
- Non-flammable

Formulated as a direct replacement for all defluxers containing HCFC-141b. Designed specifically for removing R, RA, RMA, and SA type flux residues. Proven to remove fluxes from lead-free processes. Can also be used for removal of light oils, silicones, waxes, greases and other similar contaminants. Rapidly evaporating and safe on most plastics.

Part No.	Model	Description	Price
420-129	1631-16S	16 oz. Aerosol	\$15.50



No-Clean Flux Remover G3™

Ideal Drop-In Replacement for HCFC-141b

- ODP 0.00
- Non-flammable
- Removes white residue

Designed to remove no-clean flux and white residue. Non-corrosive and non-flammable. Proven to remove fluxes from lead-free processes. Also removes greases, oils and other similar contaminants.

Part No.	Model	Description	Price
423-442	1634-12S	12 oz. Aerosol	\$16.10





Blue Shower® II Cleaner

High Precision Cleaner

- Non-flammable

Developed for precision cleaning of polar and non-polar soils including: hand oils, solder oils, greases, silicone, fluxes, and similar soils. Also ideal for tape heads and general cleaning. Contains a blended HCFC-225 formula that is non-flammable, leaves no residue and can be used on most plastics and metals.

Part No.	Model	Description	Price
402-560	1667-8S	8 oz. Aerosol	\$13.95

Commercial Use only. Federal ID# Required.



No-Clean Flux Remover

High Precision Defluxer

- Non-flammable
- Approved for lead-free processes

Designed to remove no-clean flux and white water residue, is non-corrosive and non-flammable. Also removes greases, oils and similar soils. Comes with brush attachment that helps loosen and remove contaminants.

Part No.	Model	Description	Price
413-442	1660-6S	6 oz. Aerosol	\$11.90



EcoLine Flux Remover

Economical Cleaner is HCFC-141b Free

- Safe on plastics
- ODP 0.00
- Flammable

Excellent flux remover for type R, RMA, SA and most no-clean fluxes. Contains a combination of hydrocarbon solvents and alcohol making it a very effective defluxer. Can also be used as an all-purpose cleaner for removal of light oils, silicones, waxes, greases and similar contaminants. Safe on plastics and fast drying.

Part No.	Model	Description	Price
403-353	1621-10S	10 oz. Aerosol	\$9.80



EcoLine Cleaner/Degreaser

Economical Cleaner/Degreaser is HCFC-141b Free

- Safe on plastics
- ODP 0.00
- Flammable

Designed for cleaning electronic and electrical equipment, machinery and metal parts. It's rapid evaporation and complete compatibility with plastics make it the ideal choice for general degreasing.

Part No.	Model	Description	Price
423-449	1620-10S	10 oz. Aerosol	\$9.60



Flux Remover AMS

High Precision Defluxer

- Non-flammable

Effectively removes Type R, RMA, RA and synthetic fluxes. Contains a mixture of methanol and AK225 (HCFC-225), an EPA listed substitute for Freon® TF. Non-flammable, rapid evaporation, and safe on most plastics and elastometers. Can also be used in vapor degreasing and cold batch cleaning.

Part No.	Model	Description	Price
403-200	1665-8S	8 oz. Aerosol	\$14.45
403-201	1665-18S	18 oz. Aerosol	\$25.40

Commercial Use only. Federal ID# Required.



Pre-Saturated Alcohol Wipes

General Purpose Cleaner in Convenient Packaging

- 99% pure isopropyl alcohol
- Safe on plastics
- Rapidly evaporating
- Zero residue

Cleans tape heads, removes flux, light oils and white mineral residue. Anti-static pop-up dispenser. Come 48/pkg or 100/pkg.

Part No.	Model	Description	Price
163-113	1610-DSP	Alcohol Wipes, 48/Pkg.	\$12.75
423-433	1610-100DSP	Alcohol Wipes, 100/Pkg.	\$18.55



Units with Digital Timer Plus Digital Heat Control

Features LED readout/control so you can set and monitor exact cleaning cycles up to 99 minutes. The time displays and counts down the remaining cycle time as you clean. A microprocessor-based thermostat lets you set and monitor cleaning temperature from room temperature up to 140°F. An automatic degas function removes air bubbles on power-up to improve the cleaning cycle.

Part No.	Model	Tank Capacity Gallons	Size (L x W x D)	Price
407-397	B1510DTH	1/2	5-1/2" x 6" x 4"	\$426.00
407-394	B2510DTH	3/4	9-1/2" x 5-1/2" x 4"	\$560.00
407-391	B3510DTH	1-1/2	11-1/2" x 6" x 6"	\$859.00
407-388	B5510DTH	2-1/2	11-1/2" x 9-1/2" x 6"	\$1,100.00
407-385	B8510DTH	5-1/2	19-1/2" x 11-1/2" x 6"	\$1,975.00

Units with Mechanical Timer Plus Heater

Features an adjustable timer of up to 60 minutes with a hold feature for continuous cleaning. The heater is set at an optimum cleaning temperature of 140°F.

Part No.	Model	Tank Capacity Gallons	Size (L x W x D)	Price
407-398	B1510MTH	1/2	5-1/2" x 6" x 4"	\$355.00
407-395	B2510MTH	3/4	9-1/2" x 5-1/2" x 4"	\$505.00
407-392	B3510MTH	1-1/2	11-1/2" x 6" x 6"	\$770.00
407-389	B5510MTH	2-1/2	11-1/2" x 9-1/2" x 6"	\$1,020.00
407-386	B8510MTH	5-1/2	19-1/2" x 11-1/2" x 6"	\$1,770.00

Units with Mechanical Timer without Heater

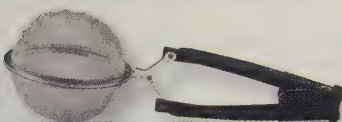
Features an adjustable timer of up to 60 minutes with a hold feature for continuous cleaning.

Part No.	Model	Tank Capacity Gallons	Size (L x W x D)	Price
407-399	B1510MT	1/2	6" x 5-1/2" x 4"	\$320.00
407-396	B2510MT	3/4	9-1/2" x 5-1/2" x 4"	\$452.00
407-393	B3510MT	1-1/2	11-1/2" x 6" x 6"	\$678.00
407-390	B5510MT	2-1/2	11-1/2" x 9-1/2" x 6"	\$955.00
407-387	B8510MT	5-1/2	19-1/2" x 11-1/2" x 6"	\$1,550.00

Stainless Steel Trays

Available as mesh or perforated tray.

Part No.	Description	Fit Series	Price
120-642	Mesh Basket	B1510	\$50.25
120-646	Mesh Basket	B2510	\$72.15
120-650	Mesh Basket	B3510	\$83.70
120-641	Perforated Tray	B1510	\$51.50
120-645	Perforated Tray	B2510	\$73.40
120-649	Perforated Tray	B3510	\$85.00
120-653	Perforated Tray	B5510	\$112.05
120-658	Perforated Tray	B8510	\$200.00



Parts Cleaning Basket

Ideal for cleaning small parts.

Part No.	Description	Price
803-756	Parts Cleaning Basket	\$4.20



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.

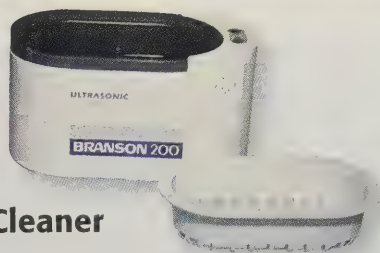
BRANSON

Portable Ultrasonic Cleaner

40KHz Cleaning Frequency

This ultrasonic cleaner features a stainless-steel tank, 6-1/2" x 3-1/2" x 2-1/4", with a capacity of 15 oz. Operates on 115V and its solid-state circuitry ensures trouble-free performance. Measures only 8-3/4" x 4-1/2" x 5", and comes complete with one parts basket, cover, instructions, and 2-year warranty.

Part No.	Model	Description	Price
120-666	B200	Portable Ultrasonic Cleaner	\$137.00



BRANSON

Ultrasonic Cleaners

Remove Dirt, Grease, Oil, Wax and More

Ultrasonic cleaning is powerful enough to remove heavy oils, buffing compounds or proteins, consistent enough to manage difficult laboratory cleaning and safe enough for delicate electronic components. Ultrasonic waves, through a cleaning solution, create a deep cleaning action to remove stubborn contaminants, even from blind holes and internal surfaces. Optional heat enhances the process. Three models to choose from. Units with Mechanical Timer without Heater. Units with Mechanical Timer Plus Heater. Units with Digital Timer Plus Digital Heat Control. All models feature solid-state circuitry for trouble-free performance. Operate on 115VAC with an ultrasonic cleaning frequency of 40KHZ. Come complete with line cord, tank cover and 2-year warranty.

Ultrasonic Cleaners Specifications			
Series	Tank Capacity Gallons	Watts	Built-In Drain
B1510	1/2	50W	No
B2510	3/4	100W	No
B3510	1-1/2	150W	Yes
B5510	2-1/2	200W	Yes
B8510	5-1/2	400W	Yes

BRANSON

Ultrasonic Cleaner Concentrates

Concentrated water-based solutions specially formulated for use with ultrasonic cleaners, are nonflammable, biodegradable, and will not harm plastic. GP & IS come in 1-quart bottles. EC & OR come in 1 gal. bottles.

Part No.	Model	Description	Price
120-686	GP*	General Purpose, for Soils and Light Oils	\$7.85
120-687	IS*	Industrial Strength, for Oils, Grease, Dirt	\$9.95
408-232	OR**	Oxide Remover, for Tarnish, Metal Oxide, Rust	\$32.00
120-685	EC***	Electronic Cleaners, for Oils, Resins, Rosins	\$27.05

*will make 2 gallons of cleaning solution.

**will make 16 gallons of cleaning solution.

***will make 10 gallons of cleaning solution.





Electronic Soldering Products

Contact East and Kester Electronic Assembly Products have formed a partnership to offer you high quality products, advanced technology with same day shipping and unsurpassed customer service. Kester is a leading worldwide manufacturer of solder and solder related materials for the electronic manufacturing industry. These products are used by a wide range of industries such as telecommunications, computer, automotive, military, components manufacturing and consumer electronics.

Ultrapure® Bar Solder

Industry Standard Bar Solder for Use in Electronic Applications

Made by a special process which controls the inclusion of oxides and metallic and non-metallic impurities, Kester Ultrapure® is the industry standard bar solder for use in high tech electronics applications where lower surface tension and hole filling ability are essential. The purity of Kester Ultrapure® far exceeds the requirements of QQ-S-571-F, ASTM B32, and ANSI/J-STD-006. **Bars are 1-2/3 lbs, sold in 25 lb increments (15 bars).**

Part No.	Tin/Lead Alloy	Description	Price/lb
407-749	63/37	Ultrapure Bar Solder	\$6.60
174-892	60/40	Ultrapure Bar Solder	\$4.90

Ultrapure® Low-Dross Bar Solder

Manufactured using the Ultrapure® process and containing the same metal purity as Ultrapure, Kester Ultra Low Dross is formulated with a special low dross additive which dramatically decreases dross formation on the solder pot. Lower dross formation decreases joint weakening inclusions in the solder, keeps surface tension low and decreases costly solder loss through drossing. **Bars are 1-2/3 lbs, sold in 25 lb increments (15 bars).**

Part No.	Tin/Lead Alloy	Description	Price/lb
171-496	63/37	Low-Dross Bar Solder	\$7.25

Wire Solder

"275" No-Clean Wire Solder

"275" is a no-clean cored wire solder that offers superior wetting performance leaving an extremely clear post-soldering residue. Designed to be a low spattering core flux. Compliant to J-STD-004, classified as ROL0 flux.

Part No.	Tin/Lead Alloy	Diameter	Flux %	Price
420-598	63/37	.015"	50/1.1	\$23.75
420-599	63/37	.020"	50/1.1	\$17.20
423-001	63/37	.025"	50/1.1	\$18.25
423-002	63/37	.031"	58/1.1	\$10.95

"245" No-Clean Core Wire Solder

"245" is a halide-free, rosin based no-clean core flux that provides excellent wetting combined with optimal reliability and cosmetics. "245" is compliant to Belcore GR78 and is classified as ROL0 per J-STD-004.

Part No.	Tin/Lead Alloy	Diameter	Flux %	Price
412-870	63/37	.015"	50/1.1	\$24.00
417-430	63/37	.020"	50/1.1	\$17.65
140-998	63/37	.020"	58/2.2	\$25.45
412-884	63/37	.025"	50/1.1	\$13.15
401-387	63/37	.031"	50/1.1	\$11.15
419-829	63/37	.031"	58/2.2	\$11.15
412-885	63/37	.031"	66/3.3	\$11.85
419-830	60/40	.031"	50/1.1	\$14.60

"285" RMA Core Wire Solder

"285" is an RMA (rosin mildly activated) flux cored wire solder for sensitive electronic and military applications. If left uncleaned, residues are non-corrosive. Compliant to J-STD-004, classified as ROL1 flux.

Part No.	Tin/Lead Alloy	Diameter	Flux %	Price
183-988	63/37	.031"	66/3.3	\$12.05



"44" Rosin Core Wire Solder

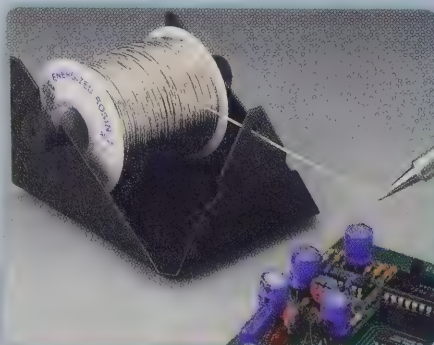
"44" is a highly active RA (activated rosin) core flux designed for excellent instant wetting action, even on nickel surfaces. Although this is an RA-based material, the residues are not-corrosive if left uncleaned. Compliant to J-STD-004, classified as ROM1 flux.

Part No.	Tin/Lead Alloy	Diameter	Flux %	Price
111-292	63/37	.025"	66/3.3	\$13.70
111-295	63/37	.031"	66/3.3	\$11.20
111-296	63/37	.031"	58/2.2	\$13.90
111-298	63/37	.040"	66/3.3	\$15.75
111-300	63/37	.050"	66/3.3	\$14.50
111-303	63/37	.062"	66/3.3	\$10.45
111-277	60/40	.025"	66/3.3	\$18.15
111-279	60/40	.031"	66/3.3	\$11.10
15-104	60/40	.040"	66/3.3	\$11.70
111-283	60/40	.050"	66/3.3	\$14.50
15-108	60/40	.062"	66/3.3	\$9.80

"331" Water-Soluble Core Wire Solder

"331" is a high-activity water-soluble core flux for soldering difficult metals. "331" is designed for optimal cleanability, along with minimal smoke and odor. The residues from "331" must be removed. "331" is classified as ORH1 per J-STD-004.

Part No.	Tin/Lead Alloy	Diameter	Flux %	Price
412-887	63/37	.015"	66/3.3	\$31.85
412-888	63/37	.020"	66/3.3	\$20.05
412-881	63/37	.025"	66/3.3	\$18.50
171-550	63/37	.031"	66/3.3	\$11.40
412-886	63/37	.062"	66/3.3	\$13.80



Solder Spool Holder

Keeps Solder Neat and Ready to Use

Portable, sturdy metal holder with non-slip base keeps solder in place without unravelling. User can quickly locate the end of the solder as it is always in the same place and ready to use. Solder spool is easily loaded into holder, and end of solder wire is fed through the dispenser hole. Enameled steel, 4" x 3" x 2".

Part No.	Description	Price
191-792	Solder Spool Holder	\$12.75



kester
CONNECTING INNOVATION™

SOLDER & CHEMICALS



No-Clean Fluxes & Thinners

Available in 1, 5 and 53 gallon containers—call for pricing

No-clean fluxes and VOC free no-clean fluxes are designed for wave-soldering and surface mount circuit board assemblies. These extremely low-solid-content fluxes leave virtually no residue after soldering with no offensive odors. They are formulated to provide good activity and are halogen-free, noncorrosive and have no surface insulation resistance degradation. No-clean fluxes are an environmentally safe alternative to solvent cleaning. Eliminating the need for a cleaning process offers a significant cost-savings.

Water-Soluble Fluxes & Thinners

Available in 1, 5 and 53 gallon containers—call for pricing

Water-soluble fluxes provide better fluxing abilities and wider processing windows than traditional rosin fluxes. Water cleaning is a popular alternative to CFC-solvent cleaning (now eliminated). Water-soluble flux residues are designed to be removed with either in-line or batch hot-water cleaning processes. Please note: a circuit board's design must be compatible with the use of organic fluxes and water cleaning since all of the residue must be removed and the components must be able to tolerate water.

Rosin Fluxes & Thinners

Available in 1, 5 and 53 gallon containers—call for pricing

Rosin fluxes are formulated with high-quality purified rosin, conforming to LLL-R-626 in specially blended solvent systems. The choice of the proper flux formula is based on the soldering application, desired rosin percentage and the activity level required. All residues are non-corrosive but may be removed with solvent.

No Clean Fluxes				
Formulation	951	959	979	971M
Flux Type	Rosin-Free Low Solids	Low Solids	VOC-Free	VOC-Free
Percent Solids	2.0	3.9	4.5	3.25
VOC's (g/liter)	792	776	0	0
Specific Gravity	0.813±0.003	0.800±0.005	1.016±0.010	1.005±0.010
Product Characteristics	Very low solids, rosin free, foam and spray application flux. Practically no residue after the soldering process.	Designed for wave soldering of conventional and surface mount assemblies. Developed to minimize the formation of micro-solderballs.	Most active VOC-Free flux for optimal top-side wetting and solderball reduction. May be applied by spray fluxer only.	Designed for foam and wave fluxer applications.
Compliant Specifications	Bellcore Issue 1 GR-78-CORE & ANSI-J-STD-004, ORLO	Bellcore Issue 1 GR-78-CORE & ANSI-J-STD-004, ROLO	Telcordia Issue 1 1 GR-78-CORE & ANSI-J-STD-004, ORLO	Telcordia Issue 1 1 GR-78-CORE & ANSI-J-STD-004, ORLO
Residue Removal (not normally required)	Wash with Kester's 5768, Bio-Kleen saponifier at 2% concentration.	Wash with Kester's 5768, Bio-Kleen saponifier at 2% concentration.	Wash with de-ionized water with 2% of 5768 Bio-Kleen saponifier.	Wash with de-ionized water with 2% of 5768 Bio-Kleen saponifier.
Thinner	110	4662-SM	De-ionized Water	De-ionized water

Water Soluble Fluxes			
Formulation	2331-ZX	2235	2224-25
Flux Type	Neutral pH Organic Water Soluble	Organic Water Soluble	Organic Water Soluble
Percent Solids	33	11	24
VOC's (g/liter)	729	763	650
Specific Gravity	0.899±0.005	0.856±0.005	0.882±0.005
Percent Halides	2.2	1.5	1.5
Product Characteristics	Original pH neutral organic flux for automated wave and drag soldering processes.	Very active flux for surface mount assemblies designed to help reduce skips on bottom side surface mount pads.	Highly active, organic flux for automated wave soldering applications. Higher solids than 2235 for greater heat stability.
Compliant Specifications	ANSI-J-STD-004, ORH1	ANSI-J-STD-004, ORH1	ANSI-J-STD-004, ORH1
Residue Removal	Residue removal is required. Use soft or de-ionized water at temperatures of 120°-150°F.	Residue removal is required. Use soft or de-ionized water at temperatures of 120°-150°F.	Residue removal is required. Use soft or de-ionized water at temperatures of 120°-150°F.
Thinner	4662	4662	4662

Rosin Fluxes			
Formulation	1544	186	186-18
Flux Type	Activated Rosin (RA)	Rosin Mildly Activated (RMA)	Rosin Mildly Activated (RMA)
Percent Solids	50	36	18
Percent Halides	0.44	0.02	0.02
Specific Gravity	0.929±0.005	0.879±0.005	0.831±0.005
Product Characteristics	Active, non-corrosive rosin type flux. Used on surfaces which are difficult to solder.	Designed for high terminal stability and superior solderability.	Designed for high terminal stability and superior solderability.
Compliant Specifications	ANSI-J-STD-004, ROM1	ANSI-J-STD-004, ROL1	ANSI-J-STD-004, ROL1
Residue Removal	Residue is non-corrosive, but may be removed with solvent or Kester's Bio-Kleen 5768 saponifier at 7-10% solution in de-ionized or soft water at 120-140°F.	Residue is non-corrosive, but may be removed with solvent or Kester's Bio-Kleen 5768 saponifier at 7-10% solution in de-ionized or soft water at 120-140°F.	Residue is non-corrosive, but may be removed with solvent or Kester's Bio-Kleen 5768 saponifier at 7-10% solution in de-ionized or soft water at 120-140°F.
Thinner	104	120	120

These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be ship-pable by air. These products are not returnable or refundable. Please call if you require specific information.



**For an expanded selection of solder & chemicals
visit contacteast.com**

Fax: 800-743-8141 • Phone: 800-225-5370 • ORDER ONLINE www.jensentools.com



PM-202 No-Clean Solder Paste

Designed for applications that require the ultimate performance with respect to testability. Excellent print and reflow characteristics with high activity on all substrates including OSPs. Expected tack life is 12+ hours. Residues do not need to be removed for typical applications. Compliant to Bellcore Issue 1 GR-78-CORE, ANSI/J-STD-004, classification ROL0.



Part No.	Tin/Lead Alloy	Powder Mesh Size	Metal %	Package	Price
420-146	63/37	-325/+500 (Type 3)	90%	500 Gram Jar	\$51.50
420-198	63/37	-325/+500 (Type 3)	90%	600 Gram Cartridge	\$66.50

Easy Profile™ 256 No-Clean Solder Paste

Extremely robust and user-friendly. Can be processed in a multitude of different reflow profiles. Highly active and capable of wetting unusual metalizations. Expected tack life is 12+ hours. Compliant to Bellcore Issue 1 GR-78-CORE, ANSI/J-STD-004, classification ROL0.

Part No.	Tin/Lead Alloy	Powder Mesh Size	Metal %	Package	Price
419-837	63/37	-325/+500 (Type 3)	90%	500 Gram Jar	\$51.50
419-838	63/37	-325/+500 (Type 3)	90%	600 Gram Cartridge	\$72.50

HM531 Water-Soluble Solder Paste

- Non-slumping
- Non-foaming

Designed as an all-purpose water soluble paste. Provides consistent hours of stable stencil life, tack time, and printing characteristics. Offers anti-slump characteristics along with excellent solderability to a wide range of surface and component lead metalizations, solving problems caused by slumping, bridging and wetting. Tack life 8+ hours. Compliant to ANSI/J-STD-004, classification ORM0.

Part No.	Tin/Lead Alloy	Powder Mesh Size	Metal %	Package	Price
420-144	63/37	-325/+500 (Type 3)	90%	500 Gram Jar	\$51.50
420-143	63/37	-325/+500 (Type 3)	90%	600 Gram Cartridge	\$66.50

Solder Paste

All Kester solder paste formulations are manufactured using the highest quality raw materials available. Kester's worldwide research facilities work together to design solder paste formulas which bring the latest technological developments to electronic manufacturers around the globe.

R562 Water-Soluble Solder Paste

R562 is an organic acid, water-soluble solder paste specifically designed for resistance to environmental extremes. Water-soluble pastes tend to dry out in low relative humidity and slump at high relative humidity. Maintains its print characteristics, tack and activity even after exposure to environmental extremes. Tack life is 8+ hours. Compliant to ANSI/J-STD-004, classification ORH0.

Part No.	Tin/Lead Alloy	Powder Mesh Size	Metal %	Package	Price
141-145	63/37	-325/+500 (Type 3)	90%	500 Gram Jar	\$51.50
141-146	63/37	-325/+500 (Type 3)	90%	600 Gram Cartridge	\$59.50

R276 No Clean Solder Paste in Syringe Dispenser

Provides optimal performance in all types of dispensing applications. R276 is packaged void-free to ensure consistent dispensing in high speed automated processes. Exhibits excellent dispensing characteristics with a wide range of needle diameters. Expected tack life is 8+ hours. Residue removal is not required. Comes in 35 gram syringe.

Part No.	Tin/Lead Alloy	Powder Mesh Size	Metal %	Package	Price
143-782	63/37	-325±500 (Type 3)	87	35 Gram Syringe	\$9.95



R500 Water Soluble Solder Paste in Syringe Dispenser

The activator package in this formula is aggressive enough to remove tenacious oxide layers or solder to OSP coated boards. Delivers excellent wetting characteristics. Expected tack life is 8+ hours. De-ionized or soft tap water at 130°F to 150°F should be used for residue removal. Comes in 35 gram syringe.

Part No.	Tin/Lead Alloy	Powder Mesh Size	Metal %	Package	Price
141-144	63/37	-325±500 (Type 3)	87	35 Gram Syringe	\$9.95



Flux-Pen

A Must for Rework and Touch-Up

Unique tool allows controlled application of flux eliminating the mess from flux bottles. Chisel point, spring loaded tip dispenses just the right amount of flux. Flux-Pen stops waste while limiting operator exposure to soldering chemicals. Three flux formulations available:

111-677, Rosin flux contains a mildly activated rosin (RMA) type flux approved under MIL-F-14256 for military grade soldering. Residue may be left in place or removed using a solvent.

111-681, No Clean flux contains a low solids, halide free "no-clean" flux that leaves minimal residues. Improves the cosmetics of the finished product and eliminates residue that can interfere with "bed of nails" testing.

171-586, Water Soluble flux contains an organic water soluble flux with neutral pH to provide the best ionic cleanliness for the electronics industry. Flux residue is removed with plain water.

Part No.	Description	Price
111-677	Rosin Flux Pen	\$5.00
111-681	"No-Clean" Flux Pen	\$5.00
171-586	Water Soluble Flux Pen	\$5.00



These products are regulated by the Department of Transportation (DOT) and may be subject to surcharges if shipped by ground or by air. Some of these products are subject to other restrictions, and may not be shippable by air. These products are not returnable or refundable. Please call if you require specific information.



Lead-Free Solder Products ▶▶▶▶▶▶▶▶▶▶

Europe's WEEE Directive is mandating the phase out of lead in electronic soldering by July 2006. The requirement of lead-free is rapidly taking on momentum around the world. Kester has developed best in class soldering products to enable the effective transition to lead-free assembly from solder pastes, liquid fluxes to solder wire. Kester offers engineered products designed for the lead-free process.

Lead-Free Solder Pastes

■ Call for pricing

The key variables in lead-free SMT are the higher reflow temperatures, flux activity, residue characteristics, cleanability and pin testability. The slower wetting speeds associated with lead-free alloys require enhanced flux systems. Kester solder pastes have novel flux systems that are specifically designed for lead-free assembly. These new flux systems promote good wetting and excellent solder joint integrity of the higher temperatures seen with most lead-free alloys such as Sn-Ag-Cu (tin-silver-copper).

Lead-Free Solder Pastes				
Formula	EM907 No-Clean	R520A Water-Soluble	R276 No-Clean	R505 Water-Soluble
Application	Stencil Printing		Syringe Dispensing	
Product Characteristics	It offers the reliability of halide free no-clean pastes coupled with new activators enabling it to withstand higher temperatures without slumping and low voiding within the solder joint.	Designed to solder effectively difficult metal surfaces in an air or nitrogen reflow atmosphere. The activator package is able to with-stand the higher temperatures without slump. The flux system is non-hygroscopic, reducing paste waste at the printer.	Provides optimal performance in all types of dispensing applications. Packaged void-free to ensure consistent dispensing in high speed automation processes. Exhibits excellent dispensing characteristics with a wide range of needle diameters.	The activator package in this formula is aggressive enough to remove tenacious oxide layers or solder from OSP coated boards. R505 delivers excellent wetting characteristics.
Residue Characteristics	Light colored, pin testable	Cleanable in warm water	Light colored, pin testable	Cleanable in warm water
Copper Mirror Corrosion	Low	High	Low	High
Halide Tests	Halide-Free	Halide-Free	Halide-Free	Halide-Free
Surface Insulation Resistance	Pass (uncleaned)	Pass (cleaned)	Pass (uncleaned)	Pass (cleaned)
Printing Characteristics	Excellent to 16 mils pitch (0.4mm)	Excellent to 16 mils pitch (0.4mm)	—	—
Idle Time	60 minutes at 70°-77°F and 40-60% RH	90 minutes at 70°-77°F and 40-60% RH	—	—
Maximum Print Speed	Up to 150 mm/sec	Up to 150 mm/sec	—	—
Typical Metal Percentage	89% Type III Powder for Stenciling	89.5% Type III Powder for Stenciling	85% Type III Powder for Dispensing	86% Type III Powder for Dispensing
Expected Stencil Life	8+ hours at 70°-77°F and 40-60% RH	8+ hours at 70°-77°F and 40-60% RH	—	—
Reflow Atmosphere	Air or Nitrogen	Air or Nitrogen	Air or Nitrogen	Air or Nitrogen
Compliant Specifications	Telcordia Issue 1 GR-78-CORE IPC/J-STD-004 Flux Designator ROLO	IPC/J-STD-004 Flux Designator ORHO	Telcordia Issue 1 GR-78-CORE IPC/J-STD-004 Flux Designator ROLO	IPC/J-STD-004 Flux Designator ORHO



Lead-Free Bar Solder

Ultra-pure lead-free bar solder is comprised of 96.5% Tin, 3.0% Silver, 0.5% Copper (Sn96.5/Ag3.0/Cu0.5) with a melt range of 419°F to 424°F. Its unique triangular bar shapes allows you to differentiate if from leaded bar solders. **Bars are 1-2/3 lbs., sold in 25 lb increments (15 bars).**

Part No.	Tin/Lead Alloy	Description	Price
427-120	Sn96.5/Ag3.0/Cu0.5	1-2/3 lb. Lead-Free Bar	\$26.95

Lead-Free Wire Solder

■ Call for pricing

Wire solder is comprised of 96.5% Tin, 3.0% Silver and 0.5% Copper with a melt range of 419°F to 424°F.

"275" No Clean Wire Solder

Part No.	Diameter	Core/Flux %	Price
424-055	.020"	58/2.2	\$39.30
424-056	.025"	58/2.2	\$30.50
424-057	.031"	58/2.2	\$29.10

"331" Water Soluble Wire Solder

Part No.	Diameter	Core/Flux %	Price
424-059	.020"	66/3.3	\$39.30
424-060	.025"	66/3.3	\$30.50
424-061	.031"	66/3.3	\$29.10

Liquid Fluxes for Lead-Free Wave Soldering

Lead-free wave and selective soldering require exposing the flux to slightly higher soldering temperatures. Lead-free alloys traditionally wet metal surfaces more slowly than tin-lead. Kester liquid fluxes for lead-free assembly have new activator packages to enable rapid wetting and hole-filling, ensuring reliable product output.

Lead-Free Fluxes		
Formulation	979 VOC-Free	2220-VF VOC-Free
Application	Spray or Wave Fluxer	Spray, Wave or Foam Fluxer
Percent Solids	4.5	30
VOC's (g/liter)	0	0
Specific Gravity	1.016±0.010	1.005±0.010
Halide Content %	Halide - Free	1.6
Compliant Specifications	ANSI-J-STD-004, ORLO	ANSI-J-STD-004, ORH1

Toss the tip. Keep the heater. Count the savings.



A new design that saves you money.

When the tip wears out on some popular soldering irons, the entire heater/tip cartridge must be replaced, even though the heater has months of useful life remaining. Very wasteful. And very expensive.

With a radically different design that integrates the heater into the handle, the new WMP micro pencil provides an extremely short tip-to-grip distance. But the real news is that when the tip wears out, you replace only the tip. So your operating costs can decrease by as much as 70%! Ask your Contact East / Jensen Tools sales representative for a demonstration and start counting your savings.

See Opposite Page for More Information.

Heater is integrated
into the handle



When this tip dies,
the heater lives on

COOPER Tools

Copyright © 2005, Cooper Industries, Inc

Weller®



Weller

SOLDERING

DESIGNED FOR
CONVENTIONAL
&
LEAD-FREE
SOLDER ALLOYS™



WSL Digital Soldering Station

Designed for Fast, Efficient Soldering

- Heating element is contained in iron handle
- Temperature adjustable
- Micro soldering iron
- Superior thermal recovery

Station is designed for production, rework, and repair of through hole and SMT components. Provides fast heat-up and superior thermal recovery to allow for fast, efficient soldering. Tip temperature is adjustable from 300°F to 850°F. Micro soldering iron allows for excellent control with a short-tip-to-grip ratio to put you closer to the work. Features a heating element which has been integrated into the soldering iron handle, when the tip dies, the heater lives on. Tips are secured to the soldering iron by use of a threaded end, which eliminates the need for a barrel nut. Station comes complete with power unit, 65-watt soldering iron with NT1 tip, iron holder and sponge. Operates on 120VAC.

Part No.	Model	Description	Price
420-132	WSL	Soldering Station	\$259.00
420-133	WMP	65W Soldering Iron	\$99.00

NT Series Tips for WSL Stations

Micro	Dimensions			Part No.	Model	Price
	A	C				
	.010"	.291"		420-134	NT1	\$7.40
	.010"	.333"		420-156	NT1S	\$7.40

Chisel	Dimensions			Part No.	Model	Price
	A	B	C			
	.063"	.016"	.331"	420-159	NT6	\$7.40
	.063"	.016"	.372"	420-160	NTA	\$7.40
	.094"	.031"	.289"	420-161	NTB	\$7.40
	.126"	.031"	.305"	420-162	NTC	\$7.40
	.157"	.031"	.305"	420-163	NTD	\$7.40
	.031"	.016"	.331"	420-164	NTH	\$7.40
	.047"	.016"	.331"	420-165	NTK	\$7.40

Bent Chisel	Dimensions			Part No.	Model	Price
	A	B	C			
	.063"	.031"	.339"	420-166	NTAX	\$8.90

Round	Dimensions		Part No.	Model	Price
	A	C			
	.047"	.390"	420-158	NT4	\$7.40

Bent Round	Dimensions			Part No.	Model	Price
	A	B	C			
	.016"	.063"	.321"	420-157	NT1X	\$8.90

Cylindrical	Dimensions			Part No.	Model	Price
	A	B	C			
	.079"	.118"	.528"	420-167	NTGW	\$12.55

DESIGNED FOR
CONVENTIONAL
&
LEAD-FREE
SOLDER ALLOYS™



WSL2 Dual Digital Soldering Station

Operate Two Powerful Soldering Irons Simultaneously

- 65-watt and 80-watt soldering irons

Station is designed for production, rework, and repair of through hole and SMT components. Features fast heat-up and superior thermal recovery to allow for fast, efficient soldering. Tip temperature is adjustable from 300°F to 850°F. Unit includes two handpieces. Model WMP is a 65-watt micro iron with a short tip-to-grip ratio to allow for greater control and puts you closer to your work. Model WSP80 is an 80-watt slim design iron and weighs only 0.7 oz. Station comes complete with power unit, 80-watt soldering iron with LTB tip, iron holder and sponge, and 65-watt soldering iron with an NT1 tip, iron holder and sponge. Operates on 120VAC.

Part No.	Model	Description	Price
420-135	WSL2	Dual Soldering Station	\$450.00
420-133	WMP	65W Soldering Iron	\$99.00
408-247	WSP80	80W Soldering Iron	\$115.15

NT Series SMT Tips for WSL Stations

Slot	Dimensions			Part No.	Model	Price
	A	B	C			
	.070"	.195"	.070"	420-171	NTSMT04	\$28.10
	.060"	.090"	.070"	420-172	NTSMT05	\$28.10
	.100"	.068"	.055"	420-173	NTSMT06	\$28.10
	.090"	.190"	.070"	420-174	NTSMT07	\$28.10

Blade	Dimensions			Part No.	Model	Price
	A	B	C			
	.410"	.022"	.280"	420-168	NTSMT01	\$51.70
	.620"	.022"	.280"	420-169	NTSMT02	\$57.65
	.820"	.022"	.280"	420-170	NTSMT03	\$62.05

Tunnel	Dimensions			Part No.	Model	Price
	A	B	C			
	.180"	.200"	.090"	420-175	NTSMT08	\$32.50
	.410"	.200"	.090"	420-176	NTSMT09	\$32.50
	.450"	.270"	.090"	420-177	NTSMT10	\$32.50
	.520"	.375"	.125"	420-178	NTSMT11	\$32.50
	.620"	.375"	.125"	420-179	NTSMT12	\$32.50
	.720"	.375"	.125"	420-180	NTSMT13	\$32.50
	.740"	.365"	.125"	420-181	NTSMT14	\$32.50

Quad	Dimensions			Part No.	Model	Price
	A	B	C			
	.105"	.303"	.150"	420-182	NTSMT15	\$53.20
	.410"	.410"	.150"	420-183	NTSMT16	\$53.20
	.500"	.500"	.150"	420-184	NTSMT17	\$53.20
	.540"	.340"	.150"	420-185	NTSMT18	\$53.20
	.750"	.750"	2.350"	420-186	NTSMT19	\$53.20
	.915"	.680"	.150"	420-187	NTSMT20	\$70.95
	.965"	.965"	2.350"	420-188	NTSMT21	\$70.95
	1.155"	1.165"	2.350"	420-189	NTSMT22	\$70.95



ESD Safe WTCP-Series Soldering Station



**To Change the Temperature
Just Change the Tip**

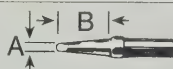
■ Static dissipative housing and iron handle

Soldering station features a static dissipative housing and iron handle to help eliminate ESD build-up at the work area. Easily detachable iron stand can be attached to either right or left side of power unit or kept separate for convenient placement on the bench. The combination iron stand/sponge holder has storage for up to six solder tips. "Magnastat" temperature control maintains a constant tip temperature of 600°, 700° or 800°F depending on the tip selected. Simply changing tips changes temperature. The low voltage, closed-loop design protects components that are sensitive to temperature, voltage or current. Accepts PT series tips. Power unit operates on 120VAC, 60Hz, with 24V output to iron. Has 3-wire power cord. Comes complete with power unit, iron stand with sponge and soldering iron with 700°F, PTA7 tip. Power unit features an indicator light and on/off switch.

Part No.	Model	Description	Price
112-083	WTCPT	WTCPT Soldering Station with Iron	\$136.25
47-261	TC201T	TC201T Handpiece only	\$74.50
191-800	TC205	Replacement Sponge	\$1.65

PT-Series Tips

Fits Model WTCPT.



Shape	Dimensions A B	Part No.	Temperature Style (°F)	Price
	1/16" 5/8"	47-221	PTA6 600°	\$5.20
		47-223	PTA7 700°	\$5.20
		47-225	PTA8 800°	\$5.20
	3/32" 5/8"	112-918	PTB7 700°	\$5.20
		47-233	PTB8 800°	\$5.20
	1/8" 5/8"	112-923	PTC6 600°	\$5.20
		112-924	PTC7 700°	\$5.20
		112-925	PTC8 800°	\$5.20
	3/16" 3/4"	47-245	PTD6 600°	\$7.25
		47-247	PTD7 700°	\$5.20
		47-249	PTD8 800°	\$5.20
	15/64" 3/4"	112-937	PTE8 800°	\$5.20
	1/32" 5/8"	112-943	PTH8 800°	\$5.20
		112-945	PTK7 700°	\$5.20
	3/64" 1"	112-946	PTK8 800°	\$5.20
		112-948	PTL7 700°	\$5.20
	5/64" 1"	112-949	PTL8 800°	\$5.20
		112-951	PTM7 700°	\$5.20
	1/8" 1"	112-952	PTM8 800°	\$5.20
		112-960	PTR7 700°	\$5.20
	1/16" 5/8"	112-961	PTR8 800°	\$5.20
		112-957	PTP7 700°	\$5.20
	1/32" 5/8"	112-958	PTP8 800°	\$5.20
	1/32" 5/8"	112-953	PTO6 600°	\$5.20
		112-954	PTO7 700°	\$5.20
	1/32" 1"	112-955	PTO8 800°	\$5.20
		112-939	PTF7 700°	\$5.20
	1/32" 5/8"	112-940	PTF8 800°	\$5.20
		112-959	PTG7 700°	\$5.20
	1/16" 5/8"	112-960	PTR7 700°	\$5.20
		112-961	PTR8 800°	\$5.20
	1/32" 5/8"	112-957	PTP7 700°	\$5.20
		112-958	PTP8 800°	\$5.20
	1/32" 1"	112-953	PTO6 600°	\$5.20
		112-954	PTO7 700°	\$5.20
	1/32" 5/8"	112-955	PTO8 800°	\$5.20
		112-939	PTF7 700°	\$5.20
	1/32" 5/8"	112-940	PTF8 800°	\$5.20
		112-959	PTG7 700°	\$5.20
	1/16" 5/8"	112-960	PTR7 700°	\$5.20
		112-961	PTR8 800°	\$5.20
	1/32" 5/8"	112-957	PTP7 700°	\$5.20
		112-958	PTP8 800°	\$5.20
	1/32" 1"	112-953	PTO6 600°	\$5.20
		112-954	PTO7 700°	\$5.20
	1/32" 5/8"	112-955	PTO8 800°	\$5.20
		112-939	PTF7 700°	\$5.20
	1/32" 5/8"	112-940	PTF8 800°	\$5.20
		112-959	PTG7 700°	\$5.20
	1/16" 5/8"	112-960	PTR7 700°	\$5.20
		112-961	PTR8 800°	\$5.20
	1/32" 5/8"	112-957	PTP7 700°	\$5.20
		112-958	PTP8 800°	\$5.20
	1/32" 1"	112-953	PTO6 600°	\$5.20
		112-954	PTO7 700°	\$5.20
	1/32" 5/8"	112-955	PTO8 800°	\$5.20
		112-939	PTF7 700°	\$5.20
	1/32" 5/8"	112-940	PTF8 800°	\$5.20
		112-959	PTG7 700°	\$5.20



Variable Temperature Soldering Stations

**Quick Heat-Up with
Rapid Recovery**

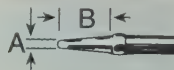
- 50 watt soldering iron
- Available with analog or digital display
- Cordless tip temperature calibration
- Cordless temperature lockout
- ESD-Safe

Stations feature temperature control from 350°F to 850°F and is temperature stable within ±9°F. An automatic shut-off feature shuts off the station after 99 minutes of inactivity to prolong tip, iron and station life. Cordless temperature lockout prevents operators from raising temperatures to levels higher than specified for the board or component. Cordless tip temperature calibration allows you the capability of resetting the temperature reading according to the different tip sizes and styles. Operates on 110V. Comes complete with power unit, soldering iron, iron holder with sponge and ETA tip.

Part No.	Model	Description	Price
420-125	WES51	Analog Soldering Station	\$116.70
420-128	WESD51	Digital Soldering Station	\$156.10
420-127	PESS1	Soldering Iron Only	\$37.40

ET-Series Tips

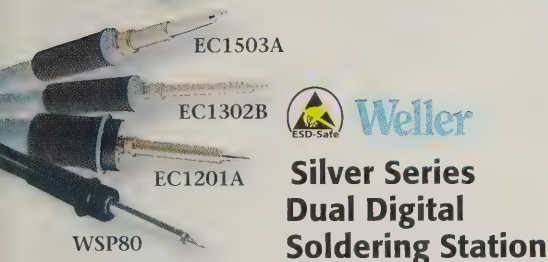
Fits Models WES51, WESD51, EC2002M-1, EC1002-1 and EC1201A.



Shape	Dimensions A B	Part No.	Style	Price
	1/16" 5/8"	47-850	ETA	\$4.75
	3/32" 5/8"	112-654	ETB	\$4.80
	1/8" 5/8"	47-852	ETC	\$5.30
	3/16" 5/8"	112-657	ETD	\$4.80
	1/32" 5/8"	112-659	ETH	\$4.80
	15/64" 3/4"	112-660	ETK	\$5.00
	5/64" 1"	112-661	ETL	\$4.80
	1/8" 1"	112-662	ETM	\$4.80
	3/16" 5/8"	112-658	ETDD	\$4.80
	1/16" 5/8"	112-665	ETR	\$4.80
	1/32" 1"	112-663	ETO	\$4.75
	1/64" 1"	47-526	ETS	\$4.95
	1/32" 5/8"	47-854	ETP	\$5.00
	1/32" 5/8"	112-658	ETDD	\$4.80
	3/16" 5/8"	112-658	ETDD	\$4.80
	3/16" 5/8"	112-658	ETDD	\$4.80
	3/16" 5/8"	112-658	ETDD	\$4.80
	3/16" 5/8"	112-658	ETDD	\$4.80



WSD161



EC1503A

EC1302B

EC1201A

WSP80

Silver Series Dual Digital Soldering Station



Silver Series Digital Soldering Station

Iron is Lightweight (0.7 oz.), yet Delivers 80 Watts of Power

- Electronically controlled
- ESD-Safe construction
- Meets MIL-Specs

Station increases the ability to work on high-mass components where a greater controlled power is required. A silver heating element along with low mass solder tips allow for faster recovery time than conventional irons and tips. Features push-button temperature control from 150°F to 850°F. LED readout displays temperature settings and tip temperature. The slim-design, lightweight (only 0.7 oz.) soldering iron delivers 80 watts of heating power that allows you both precision and high temperature soldering. Additional irons may be purchased to give you the capability to handle virtually any soldering task. Stations come complete with power unit, 80 watt soldering iron (WSP80), solder tip (LTB), iron holder/stand and sponge. Operates on 120VAC with 24V output to iron and come with a grounded 3-wire cord.

Part No.	Model	Description	Price
420-123	WSD161	Dual Digital Soldering Station	\$251.50
408-247	WSP80	80W Soldering Iron	\$115.15



EC1302A

EC1503A

EC1201A

Allows You to Operate Two Irons Simultaneously

- Electronically controlled
- ESD-Safe
- Meets MIL-Specs

This station permits the use of two irons, each with its own independent temperature setting. Tip temperature is electronically controlled through a temperature range of 100°F to 850°F. Push-button temperature control with LED readout displays temperature settings and tip temperature. Power base features a static dissipative housing to prevent ESD damage. Operates on 120VAC and comes with a 3-wire power cord. Unit measures 6-1/2" L x 4-1/2" W x 4" H. Soldering irons and iron holders are sold separately. Four soldering irons to choose from:

WSP80 soldering iron delivers 80 watts of heating power that allows you both precision and high temperature soldering. Iron features a silver heating element and low mass solder tip which allow for fast recovery time.

EC1201A soldering iron is a 40 watt macro iron for general purpose soldering.

EC1302A soldering iron is a 20 watt micro iron for precision soldering.

EC1503A soldering iron is a 42 watt high performance soldering iron for heavy-duty ground plane soldering.

Part No.	Model	Description	Price
420-123	WSD161	Dual Digital Soldering Station	\$251.50
408-247	WSP80	80W Soldering Iron	\$115.15
111-902	EC1201A	40W Macro Iron w/ETA Tip	\$109.15
111-907	EC1302B	20W Micro Iron w/EPH101 Tip	\$114.15
111-908	EC1503A	42W High Performance Iron w/EMA Tip	\$122.10
408-840	WPH80	Iron Holder with Sponge for WSP80	\$17.05
113-370	PH1201ESD	Iron Holder with Sponge for EC1201A	\$23.45
406-488	PH1301ESD	Iron Holder with Sponge for EC1302A	\$25.50
408-841	PH1503	Iron Holder with Sponge for EC1503A	\$30.90

Replacement Tips for WSP80 Iron					
Style	Part No.	Style	A	B	Price
Round	408-249	LT1S	.063"	.008"	\$6.10
Round	408-248	LT1	N/A	.010"	\$6.10
Chisel	408-257	LTH	.016"	.031"	\$6.10
Chisel	408-258	LTK	.016"	.047"	\$6.10
Chisel	408-250	LTA	.028"	.062"	\$6.10
Round	408-251	LTAS	N/A	.063"	\$6.10
Chisel	408-252	LTB	.031"	.095"	\$6.10
Chisel	408-253	LTC	.031"	.125"	\$6.10
Round	408-254	LTCS	N/A	.125"	\$6.10
Chisel	408-255	LTD	.031"	.180"	\$6.10
Bent Chisel	418-000	LT4X	.016"	.047"	\$6.10
Bent Chisel	413-721	LTAX	.032"	.063"	\$6.10
Bent Round	413-722	LT1X	N/A	.010"	\$6.10
Bent Round	413-723	LT1SLX	N/A	.012"	\$6.10
Bent Chisel	413-724	LTHX	.016"	.024"	\$6.00
Bent Round	413-725	LT1LX	N/A	.008"	\$6.05

Additional Soldering Irons

You can upgrade your system to handle virtually any soldering application by adding additional irons from the list.

Part No.	Model	Description	Price
111-902	EC1201A	40W Macro Iron w/ETA Tip	\$109.15
111-907	EC1302B	20W Micro Iron w/EPH101 Tip	\$114.15
111-908	EC1503A	42W High Performance Iron w/EMA Tip	\$122.10



Modular Soldering Irons

Ideal for Custom Applications and Ease of Maintenance

Custom assemble the exact soldering iron for your particular application. Interchangeable screw-in heaters come in several wattages and fit all three handle styles. Tips either thread-in or thread-on depending on the heater. Heaters are available in temperatures from 700°F to 1100°F. Handle **Models 7760 and 7770** have a 2-wire cord set. Handle **Model 7500A** features a 3-wire cord set, and when assembled with heater and tip, it is completely grounded. This eliminates electrostatic tip potential. Lightweight handles have a comfortable cork-like grip that stays cool. All handles have 4-1/2 ft. cords and operate on 110/120VAC.

Handles

Part No.	Model	Description	Price
111-798	7760	Red Handle, 2-wire	\$15.60
111-799	7770	Blue Handle, 2-Wire	\$15.20
111-794	7500A	Blue Handle, 3-Wire	\$31.55
113-251	9800	Iron Holder for Micro Iron	\$24.35

Heaters for Thread-In Tips

Accept 1/8" Thread-In tips.

Part No.	Model	Temperature	Watts	Price
111-776	535S	700°F	23	\$21.15
111-717	1235S	800°F	33	\$20.30
111-771	4035S	900°F	45	\$23.50

1/8" Thread-In Tips

Used with Thread-In heaters.

Part No.	Model	Shape	Size	Price
112-906	PL331	Cone	.030"	\$4.35
112-907	PL333	Chisel	.130"	\$5.60
112-908	PL338	Tapered Needle	.050"	\$4.65
191-790	7155	Chisel	.060"	\$5.80

Heaters for Thread-On Tips

Accept 1/4" Thread-on tips.

Part No.	Model	Temperature	Watts	Price
46-537	537S	700°	23	\$18.65
111-718	1237S	800°	33	\$19.70
111-773	4037S	900°	45	\$23.65
111-769	37HP	1000°	50	\$30.80

1/4" Thread-On Tips

Used with Thread-On heaters.

Part No.	Model	Temperature	Watts	Shape	Point Size	Price
112-898	PL111	700°	23	Cone	.030"	\$5.25
112-899	PL113	800°	33	Chisel	.130"	\$5.50
112-900	PL114	900°	45	Micro-Spade	.050"	\$5.40
112-901	PL133	700°	23	Taper Chisel	.150"	\$6.20
112-902	PL138	800°	33	Taper Needle	.140"	\$7.06
112-903	PL151	900°	45	Screwdriver	.130"	\$5.35
112-904	PL153	900°	45	Chisel	.200"	\$6.70
112-905	PL155	900°	45	Stepped Chisel	.070"	\$5.70

Heaters with Built-In Tips

Part No.	Model	Temperature	Watts	Shape	Price
111-770	4033S	1000°	45	Long Chisel	\$29.25
111-774	4039S	1100°	45	Short Chisel	\$30.20

Professional Irons

Comfortable Handle Stays Cool

Develops 750°F. Comfortable, lightweight handle with cushion grip remains cool during operation. Length 8". UL listed. Operates on 110/120VAC and features plug-in heating elements. Comes with ST3 screwdriver tip and 3-wire cord for safety.

Professional Irons

Part No.	Model	Description	Price
112-074	WP25	25 Watt Soldering Iron	\$36.55
112-076	WP30	30 Watt Soldering Iron	\$38.40
47-035	WP35	35 Watt Soldering Iron	\$43.45
113-372	PH60	Iron Stand, Fits All Three	\$21.35
191-800	TC205	Replacement Sponge	\$1.65

Replacements Tips

Part No.	Model	Shape	Size	Price
113-059	ST1	Screwdriver	1/16"	\$4.05
113-060	ST2	Screwdriver	3/32"	\$4.05
113-061	ST3	Screwdriver	1/8"	\$4.05
113-062	ST4	Screwdriver	3/16"	\$4.05
113-063	ST5	Single Flat	1/32"	\$4.05
113-064	ST6	Screwdriver	1/32"	\$4.05
113-065	ST7	Conical	1/32"	\$4.05
113-066	ST8	Narrow Screwdriver	1/16"	\$4.05

Micro-Sized Soldering Iron Delivers up to 800° F

This micro-sized soldering iron features an advanced ceramic heater that delivers the temperature performance of traditional larger soldering irons. Iron not only heats up fast but has excellent heat recovery. Higher thermal efficiency far outlasts ordinary heaters. Fully grounded tip is safe for microelectronics. Lightweight micro handle stays cool and is easy to manipulate. Available in two models, 700° F and 800° F. Comes complete with 1/16", 9012 screwdriver tip. 3-wire, hi-flex, burn-resistant cord. 115/120 VAC.

Part No.	Model	Description	Price
111-844	9370	Micro Soldering Iron, 700° F	\$69.60
113-251	9800	Iron Holder for Micro Iron	\$24.35

Replacement Tips

Part No.	Model	Description	Price
112-457	9010	1/64" Precision Point	\$10.10
112-458	9011	1/32" Spade	\$6.55
112-459	9012	1/16" Screwdriver	\$6.55
112-462	9015	5/64" Screwdriver	\$7.05
112-463	9016	3/32" Screwdriver	\$6.55

Replacement Tips Fit Model W60P-3

Iron-plated tips with nickel coating. All tips have screwdriver shape. Working area of tips is pre-tinned.

Part No.	Model	Temperature	Size	Price
47-507	CT5A7	700°F	1/16"	\$5.15
47-508	CT5A8	800°F	1/16"	\$5.15
112-596	CT5B8	800°F	3/32"	\$5.65
47-517	CT5C7	700°F	1/8"	\$5.65
112-599	CT5C8	800°F	1/8"	\$5.65
112-601	CT5D7	700°F	3/16"	\$5.65
112-602	CT5D8	800°F	3/16"	\$5.65
112-605	CT5E7	700°F	1/4"	\$5.65
112-606	CT5E8	800°F	1/4"	\$5.65

Controlled-Output Soldering Irons

To Change the Temperature Just Change the Tip

Temperature selection (700°F or 800°F) by merely changing tips. Model W60P-3 comes with 700°F, 1/16", screwdriver tip (Model CT5A7). Model W100P-3 comes with 700°F, 3/8" screwdriver tip (Model CT6F7). Electronic blue handle. Operates on 110/120VAC, 50/60Hz. 3-wire, 6 ft. cord.

Part No.	Model	Description	Price
47-063	W60P-3	Iron 60 Watt, 7-14" Long	\$80.75
47-135	W100P-3	Iron 100 Watt, 8-1/4" Long	\$76.85
113-372	PH60	Iron Stand, Fits All Three	\$21.35
113-369	PH100	Iron Stand for W100P-3	\$17.55
191-800	TC205	Replacement Sponge	\$1.65



Microtouch Plus® SMT/Thru-Hole Soldering Station

**Features Rapid Tip Heating
and Immediate Response to Thermal Loads**

- Reaches set temperature in as little as 3 seconds
- High thermal capacity
- Stainless steel tips - will not dissolve in solder
- SMD and thru-hole tips available in 10, 30, 60 and 120 watt capacity
- Variable temperature from 400°F to 800°F
- Digital temperature display
- ±5° stability

Unique tip design combines heating and temperature sensing at the very end of the tip to provide superior response time and true temperature control at the point of contact. Three modes of operation can be selected from a front panel switch: Touch Control Mode allows the heat to be turned on by simply touching a conductive band at the front of the handpiece. In Continuous Mode, the heat is turned on at all times. Idle Mode holds the tip temperature at approximately 210°F. Both touch and idle modes greatly prolong the life of the tip since it is only fully heated when actually being used. A full selection of stainless steel tips in SMD and thru-hole styles is available. Tip (MT203) is available to satisfy the leakage and ground requirements of MIL-STD-2000. Comes complete with power unit, handpiece (without tip), and iron/tip holder. Dual voltage supply operates on 120VAC, 50/60Hz or 230VAC, 50/60Hz user selectable.

Part No.	Model	Description	Price
401-181	MT1500	SMT/Thru-Hole Soldering Station	\$651.75

Free
Replacement
and Free Repairs
for Five Years!



Micro Tips - 10 Watt for Micro Touch Plus Stations

Part No.	Model	Description	Width	Price
401-180	MT202	Conical	.030"	\$40.50
401-179	MT203	Conical	.030"	\$54.15
401-177	MT211	Screwdriver	.045"	\$46.60
401-176	MT212	Screwdriver, Nonwetting	.045"	\$53.40
401-170	MT220	Calibration Tip	.030"	\$74.10

Mini Tips - 30 Watt for Micro Touch Plus Stations

Part No.	Model	Description	Width	Price
401-175	MT301	Screwdriver	.047"	\$48.15
401-174	MT302	Conical	.015"	\$48.15

Macro Tips - 60 Watt for Micro Touch Plus Stations

Part No.	Model	Description	Width	Price
401-171	MT601	Screwdriver	.070"	\$48.15
401-173	MT603	Conical, Bent	.020"	\$48.15
401-172	MT607	Bevel	.020"	\$48.15
401-749	MT617	Blade	(.410" Length)	\$101.90



Digital Hot Air Rework Station

Digital Rework Station Eliminates Shop Air

- Easy-to-read digital display
- Internal self-contained pump

The temperature is digitally controlled and "set value" and "actual value" are displayed with accurate easy-to-read digital display. Hot air pencil temperature control is 150°F to 1000°F. Operates on 120VAC/60Hz. Comes complete with 100 watt hot air pencil, 1.2mm nozzle, stand, nozzle removal tool and operating instructions.

Part No.	Model	Description	Price
422-188	WRS1002	Hot Air Rework Station	\$1,100.00

Soldering Iron Analyzer

- Meets MIL-STD-2000
- Measures tip temperature, tip resistance, & tip voltage
- Switch-selectable °F or °C
- 3-1/2 digit LED display
- ±1% accuracy
- Built-in recorder output

Portable analyzer lets you verify compliance with Mil-Spec's. Measures tip temperature (absolute and stability) from 32 to 1040°F (0-560°C) with a resolution down to 1°. Measures tip resistance to ground from 0 to 19.99 ohms with a resolution down to 0.01 ohms. Measures tip voltage to ground from 0 to 19.99mV RMS with a resolution down to 0.01mV. A built-in recorder output allows you to connect the analyzer to a chart recorder. The unit features a static-dissipative housing, operates on a 9V battery (included) and comes complete with vinyl case, ground cord adapter, two pyrometers, two K-type thermocouple assemblies (for Weller irons with ET and EPH series tips), chart recorder cable assembly and iron stand.

Part No.	Model	Description	Price
113-478	WA2000	Soldering Iron Analyzer	\$719.00



Digital 700 Watt Hot Air Station with Built-In Turbine

Offers Precise & Repeatable Processes When Reworking SMD Components

- Self-contained pump - does not require shop air
- Suitable for repairs of fine-pitch components with a large no. of leads
- Hot air pencil has vacuum pick-up for easy component removal
- Vacuum pick-up feature is activated automatically during process
- Can be programmed with a 3-step temperature time profile
- Bright, clear LCD for easy reading of the parameter settings
- Comes with ATK30 Stop & Go support stand
- Temperature range 122°F to 1022°F
- Temperature accuracy $\pm 77^\circ\text{F}$

Comes complete with 700 watt hot air unit with built-in turbine, HAP3 hot air pencil, 2-stage footswitch, NQ30 hot air nozzle AKT30 stop and go stand, nozzle change tool, WHA control software. Air flow volume: 5 l/min to 50 l/min. Operates on 120V/24V.

Part No.	Model	Description	Price
427-929	WHA3000P	Digital 700 Watt Hot Air Station	\$2,250.00

Silver Series Desoldering Station

- Requires shop air-80 psi
- ESD-Safe ■ Digital display

Station features a powerful 80 watt heat delivery system which allows you to desolder at lower temperatures. This means less time on the board and less potential for circuit board or component damage. Temperature is adjustable from 300°F to 850°F using push button control with digital display. Station requires a regulated air source of 80 psi. Operates on 120VAC and comes complete with power unit, DSV80 in-line handpiece with DS112 tip and handpiece holder with sponge.

Part No.	Model	Description	Price
413-703	WDD80VIL	Desoldering Station	\$622.15



Silver Series Hot Air Station

Designed for Non-Contact Soldering and Desoldering of SMD Devices

- Requires shop air-80 psi
- ESD-Safe ■ Digital display

Hot air SMD rework station is ideal for soldering and desoldering small chip components, large SMD devices, heating shrink tubing and other localized heating operations. Adjustable dial control provides air flow up to 10 liters/minute. Temperature is adjustable up to 1000°F using push button control with a digital display. Operates on 120VAC and comes complete with power unit, HAP1 hot air handpiece with 1.2mm nozzle and handpiece holder with sponge.

Part No.	Model	Description	Price
411-808	WAD100	Hot Air Station	\$556.50



Interchangeable Hot Air Nozzles for WHA3000P

SOIC Package Styles

Part No.	Model	Inside Nozzle Dimensions		Application	Price
		Inches	mm		
401-872	58736843	0.394 x 0.315	10.0 x 8.0	SO14, 16	\$60.90
401-871	58736842	0.551 x 0.394	14.0 x 10.0	SOL14, 16, 20	\$60.90
401-870	58736841	0.748 x 0.472	19.0 x 12.0	SOL24, 28	\$60.90
401-869	58736840	0.846 x 0.583	21.5 x 14.8	SOL32	\$60.90

PLCC Package Styles

Part No.	Model	Inside Nozzle Dimensions		Application	Price
		Inches	mm		
401-873	58736839	0.433 x 0.433	11.0 x 11.0	PLCC20	\$60.90
401-874	58736818	0.563 x 0.563	14.3 x 14.3	PLCC28	\$60.90
401-875	58736838	0.571 x 0.394	14.5 x 10.0	PLCC18, 22	\$60.90
401-876	58736837	0.610 x 0.512	15.5 x 13.0	PLCC32, 28	\$60.00
401-877	58736814	0.709 x 0.709	18.0 x 18.0	PLCC44	\$60.90
401-878	58736807	0.807 x 0.807	20.5 x 20.5	PLCC52	\$60.90
401-879	58736804	1.024 x 1.024	26.0 x 26.0	PLCC68	\$60.90
401-880	58736833	1.232 x 1.232	31.3 x 31.3	PLCC84	\$76.35

BQFP Package Styles

Part No.	Model	Inside Nozzle Dimensions		Application	Price
		Inches	mm		
401-879	58736804	1.024 x 1.024	26.0 x 26.0	BQFP100	\$60.90
401-882	58736857	1.496 x 1.496	38.0 x 38.0	BQFP196 / BQFP244	\$260.50

PQFP Package Styles

Part No.	Model	Inside Nozzle Dimensions		Application	Price
		Inches	mm		
401-873	58736839	0.433 x 0.433	11.0 x 11.0	PQFP24	\$60.90
401-874	58736818	0.563 x 0.563	14.3 x 14.3	PQFP52 (25 MIL) PQFP44 (33 MIL)	\$60.90
401-876	58736837	0.610 x 0.512	15.5 x 13.0	PQFP56 (25 MIL) PQFP44 (31 MIL)	\$60.00
416-365	58750721	0.689 x 0.925	17.5 x 23.5	PQFP (EIAJ) PQFP88 (25 MIL) PQFP100 (25 MIL) PQFP64 (39 MIL) PQFP80 (31 MIL) PQFP60 (39 MIL) PQFP56 (39 MIL)	\$57.95
401-877	58736814	0.709 x 0.709	18.0 x 18.0	PQFP64 (40 MIL) PQFP80 (25 MIL) PQFP52 (40 MIL)	\$60.90
401-878	58736807	0.807 x 0.807	20.5 x 20.5	PQFP84	\$60.90
401-879	58736804	1.024 x 1.024	26.0 x 26.0	PQFP128 (20 MIL) PQFP100 (25 MIL)	\$60.90
401-880	58736833	1.232 x 1.232	31.3 x 31.3	PQFP184 (20 MIL) PQFP132 (30 MIL) PQFP128 (30 MIL) PQFP120 (30 MIL) PQFP208 (20 MIL) PQFP160 (25 MIL) PQFP144 (25 MIL)	\$76.35



Variable Temperature Soldering Station

High Performance Model Designed for Lead-Free

- ESD-Safe construction
- Meets MIL-Specs

Station features a direct tip-heater configuration which allows for quick heat-up and recovery. Advanced circuit design provides precise temperature control and calibration. Temperature adjustable from 400°F to 800°F and is stable within $\pm 6^\circ\text{F}$. Zero voltage switching with less than 2mV leakage tip to ground. Operates on 120V, 60Hz. Comes complete with power supply, **SR575 soldering iron** with LT375 tip, iron holding pod, tip tray and sponge.

Additional LT series tips shown below.



DESIGNED FOR
CONVENTIONAL
&
LEAD-FREE
SOLDER ALLOYS™

Part No.	Model	Description	Price
174-706	971	Soldering Station	\$149.95

Replacement Tips for Models 930, 951, 952 & 971 Irons

Part No.	Model	Shape	Tip Width	Price
112-826	LT374	Short Conical	1/32"	\$5.70
112-827	LT375	Short Screwdriver	1/16"	\$5.70
112-828	LT376	Short Screwdriver	1/8"	\$5.70
112-834	LT392	Long Needle Point	1/64"	\$5.70
112-838	LT394	Long Screwdriver	1/16"	\$5.70
112-840	LT395	Screwdriver	3/32"	\$5.70
112-846	LT425	Long Screwdriver	3/64"	\$5.70
112-850	LT429	Needle Point	1/32"	\$5.70
112-852	LT431	Screwdriver	1/16"	\$5.70
112-862	LT446	SMD Probe	3/64"	\$5.70

Self-Contained Desoldering Station

Quick Response and Fast Heat Transfer on Even the Most Difficult Boards

- Built-in vacuum pump
- Temperature from 400°F to 800°F

Self-contained, high performance desoldering station delivers maximum heat transfer with zero crossing circuitry for ESD-safe operation. Powerful 70 watt output element makes heavy multi-layer boards easy to desolder. Built-in vacuum pump delivers 21 in/Hg of vacuum. Adjustable handpiece provides comfortable working angles. Operates on 120VAC, 60Hz. Comes complete with power unit, **HT500-2 desolder handpiece** with .040" tip, accessory kit and handpiece holder with sponge.



Part No.	Model	Description	Price
411-902	ZD500DX	Desoldering Station	\$609.95
114-505	ZD12	.030" Desolder Tip	\$15.95
114-506	ZD13	.040" Desolder Tip	\$15.95
114-507	ZD14	.060" Desolder Tip	\$15.95
113-265	AF625	Replacement Filters, Pkg/10	\$7.85

LONER[®] Temperature Controlled Soldering Station

- Meets Mil-Specs
- ESD-Safe Construction

Temperature adjustable from 400°F to 800°F with $\pm 6^\circ\text{F}$ regulation. Zero voltage switching with less than 2mV leakage tip to ground. Meets Mil-S-45743E, DOD-STD-2000 and WS-6536E. Small, lightweight iron weighs only 2.5 oz. Comes complete with power supply, **SR298 soldering iron**, LT375 tip, iron-holding pod, tip tray and sponge. Operates on 120VAC 50/60 Hz, 70 watts. UL listed 3-wire power cord and iron cord.

Takes LT series tips shown at left.



Part No.	Model	Description	Price
111-855	951SX	Temperature Controlled Soldering Station	\$110.00
112-827	LT375	.060" Spade Tip	\$5.70



"Smart" Soldering Iron

Regulates Tip Temperature $\pm 6^\circ\text{F}$

- Advanced design
- Calibrated dial on handle
- Temperature from 400°F to 800°F
- Wattage varies on demand, from 18 to 70 watts

Closed loop control circuit continuously "reads" tip temperature and then delivers the precise amount of power to maintain temperature $\pm 6^\circ\text{F}$. No need to change tips for different temperatures. Temperature recovery is virtually instantaneous even under demanding heat sink conditions. Zero voltage switching ensures no noise or power spikes to protect sensitive components. Complies with MIL-S-45743E. Iron handle weighs only 2-1/2 oz., and transparent cover reveals miniature circuit board and power lamp that cycles on and off when power is applied to heater. Comes complete with CL1080 soldering iron, LT375 tip, safety storage pod, tip holding tray, 1 lb. solder spool holder/feeder, desoldering wick holder and sponge. Iron has a 3-wire burn-resistant cord, is UL listed, operates on 115VAC, and comes with a 1-year warranty.

Part No.	Model	Description	Price
111-836	930	Soldering Iron	\$158.15



TW100 TempWise™ Digital Soldering System with TD100 Soldering Iron

- System uses quick-change tip heater cartridges
- Ergonomic handpiece for operator comfort
- Auto-setback and auto-off options
- ESD-Safe

TempWise™ digital soldering system offers temperature accuracy and allows ease of calibration. This system allows you to verify specification compliance in just seconds right on the unit itself. The advanced heating technology provides on-demand power to reflow joint after joint even with the most demanding soldering applications. Easy to use push button control allows you to change the temperature with a range of 400°F to 800°F. Optional tip heater cartridges feature a special copper alloy for excellent heat transfer and thick layer of iron for long tip life. System operates on 97-127VAC, 50/60Hz and comes complete with TD100 soldering iron, iron holder and sponge. Optional tweezer handpiece sold separately. Tip heater cartridges sold separately.

Part No.	Model	Description	Price
424-094	TW100	TempWise Soldering System	\$299.00
420-585	MT-100	Minitweez w/Holder	\$140.00



Color-coded heat level power modules

HW100 HeatWise™ Soldering System with Power Modules and TD100 Soldering Iron

Provides Power On-Demand with Fast Recovery Time

- No calibration required
- Color-coded power modules change heat level in seconds
- System uses instant change tip heater cartridges
- Ergonomic handpiece for operator comfort
- Auto-setback and auto-off options
- ESD-Safe

HeatWise™ system provides high, on-demand power to reflow joint after joint—even with the most demanding soldering applications. This system senses the thermal demand of the soldering application and responds immediately by delivering the exact amount of power required to reflow the joint at safer, lower temperatures. Interchangeable color-coded power modules control heat levels. Simply select the heat level desired and choose the appropriate color-coded power module. Then install into the PowerPort™ located on the front panel of the station. When the power module is removed, the system immediately powers off preventing unauthorized soldering from taking place. Power modules are available in the following heat levels: 5, 5.5, 6, 6.5, 7, 7.5, 8 and 8.5. System offers a temperature range of 500°F to 800°F. Optional tip heater cartridges feature a special copper alloy for excellent heat transfer and thick layer of iron for long tip life. System operates on 97-127VAC, 50/60Hz and comes complete with heat level power modules 6.5, 7 and 7.5, TD100 soldering iron, iron holder and sponge. Tip heater cartridges sold separately.



Part No.	Model	Description	Price
424-093	HW100	HeatWise Soldering System	\$199.00
419-508	1207-0362-01-P1	Heat Level 5 Power Module (Green)	\$9.00
419-509	1207-0362-02-P1	Heat Level 5.5 Power Module (Blue)	\$9.00
419-510	1207-0362-03-P1	Heat Level 6 Power Module (Orange)	\$9.00
419-511	1207-0362-04-P1	Heat Level 6.5 Power Module (Gold)	\$9.00
419-512	1207-0362-05-P1	Heat Level 7 Power Module (Red)	\$9.00
419-513	1207-0362-06-P1	Heat Level 7.5 Power Module (Purple)	\$9.00
419-514	1207-0362-07-P1	Heat Level 8 Power Module (Black)	\$9.00
424-302	1207-0362-08-P1	Heat Level 8.5 Power Module	\$9.00



PAGE

HW200 Dual Channel Soldering/Rework System

Operate 2 Handpieces Simultaneously with Independent Heat Controls


- Customize a rework system to your specific requirements
- No calibration required
- Color-coded power modules change heat level in seconds
- Auto-setback and auto-off options
- ESD-Safe

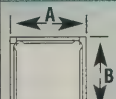
HW200 dual channel system features HEATWISE®, an advanced technology that continuously monitors the thermal demand of your work and responds instantly. It does this by supplying the precise amount of thermal energy required to achieve safe, rapid reflow in virtually any soldering for SMT rework application. Interchangeable color-coded power modules control heat levels. Simply select the heat level desired and choose the appropriate color-coded power module. Then install into the PowerPort™ located on the front panel of the station. System offers a temperature range of 500° to 800°F and is controlled by the following power module heat levels: 5, 5.5, 6, 6.5, 7, 7.5, 8 and 8.5. Optional handpieces allow you to customize a system to your specific requirements. Optional handpieces listed below. Comes complete with two 7 heat level controls.

Part No.	Model	Description	Price
424-095	HW200	HW200 Soldering System	\$425.00
420-584	TD-100	Thermo-Drive Iron w/Holder	\$85.00
420-585	MT-100	Minitweez w/Holder	\$140.00

Pace SMT Tip Heater Cartridges for TD100, TW100, HW100, HW200 & HW50

Surface mount tip heater cartridges for use with TempWise and HeatWise soldering systems.

Chip/SOT Removal Tips					
Component Type	A	Part No.	Model	Price	
	SOT 23	.070"	419-592	1124-0522-P1	\$21.00
	Chip 0805	.095"	419-594	1124-0525-P1	\$21.00
	Chip 1206	.142"	419-593	1124-0524-P1	\$21.00

PLCC/TQFP Removal Tips					
Component Type	A	B	Part No.	Model	Price
	PLCC 20	.365"	.365"	420-503	1124-0527-P1 \$45.00
	TQFP 80	.491"	.491"	420-504	1124-0529-P1 \$45.00
	PLCC 44	.662"	.662"	419-598	1124-0513-P1 \$45.00

New



SODR★TEK
by **PAGE**

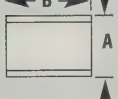
HW50 Soldering System

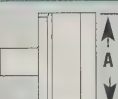
Easy to Operate with High Performance

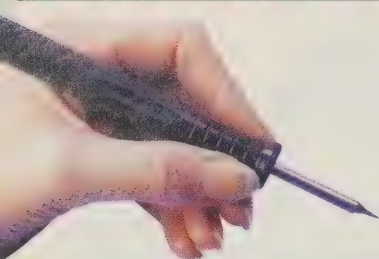
- HEATWISE technology
- No calibration required
- Performance level lockout
- ESD grounding jack
- ESD-Safe metal housing
- Stackable

A single channel soldering system uses color-coded temperature power modules to operate temperature. Simply select the temperature level you desire and plug in the appropriate power module. System offers a temperature range of 500°F to 850°F with power modules in the following heat levels: 5, 5.5, 6, 6.5, 7, 7.5, 8 and 8.5. When the power module is removed, the system immediately powers down preventing unauthorized soldering from taking place. Station features a heavy-duty metal housing to withstand harsh production environments and ensuring long-life. System can also be used with the optional MT-100 MiniTweezer. An optional Instant Set-Back cubby is also available for the TD-100 soldering iron to allow you to have a temperature setback feature when the iron is placed in the cubby, which maximizes the life of your tips. Station comes complete with power unit and TD-100 soldering iron. Tips sold separately.

Part No.	Model	Description	Price
424-303	HW50	Soldering System	\$169.00
420-585	MT-100	Minitweez w/Holder	\$140.00
424-343	6019-0071-P1	Instant Set-Back Cubby	\$50.00

SOIC Removal Tips					
Component Type	A	B	Part No.	Model	Price
	SOIC 8	.202"	.183"	419-597	1124-0519-P1 \$21.00
	SOIC 14/16	.205"	.415"	419-595	1124-0504-P1 \$45.00
	SOIC 20	.377"	.535"	419-596	1124-0505-P1 \$45.00

Blade Tips				
Component Type	A	Part No.	Model	Price
	.425"	420-505	1124-0501-P1	\$45.00
	.630"	420-506	1124-0502-P1	\$16.50
	.835"	420-507	1124-0503-P1	\$45.00



TD100 Handpiece for TW100, HW100, HW200 & HW50 Soldering Systems

TD100 handpiece is designed to virtually eliminate operator fatigue, improve control and enhance productivity in the most demanding production soldering environments. The heater and sensor are at the tip, away from the handle, keeping it cool and comfortable. "Tip to Grip"




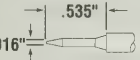
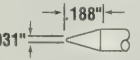
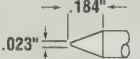
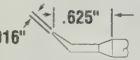


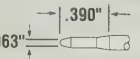
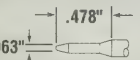
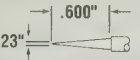
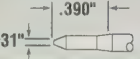
length has been optimized for the perfect balance between reach, access and visibility of the work.

Part No.	Model	Description	Price
420-584	TD-100	Thermo-Drive Iron w/Holder	\$85.00

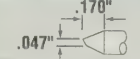
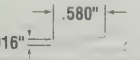
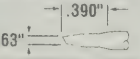
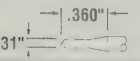
Tip Heater Cartridges for TD100, TW100, HW100, HW200 & HW50

Tip heater cartridges provide instant tip change capability with a unique key lock feature to ensure proper tip orientation, durability and stability even in the most demanding production operations. The end of the tip starts with a special copper alloy with superior heat transfer capacity followed by a thick layer of iron for long life and excellent solderability.

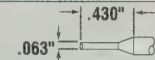
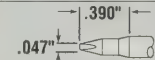

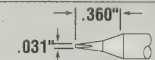
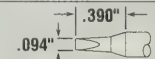
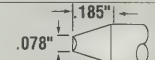
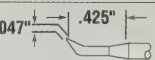
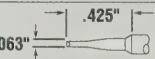
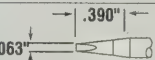
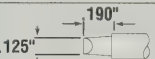
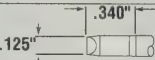


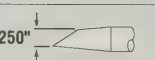
Conical Tip Heater Cartridges

Size and Shape	Part No.	Model	Price
 .031" Conical Sharp Extended	419-523	1124-0001-P1	\$7.95
 .016" Conical Sharp Extended	419-524	1124-0002-P1	\$7.95
 .016" Conical Sharp Bent 30°	419-525	1124-0003-P1	\$7.95
 .016" Conical Sharp Extended	419-526	1124-0004-P1	\$7.95
 .031" Conical	419-527	1124-0005-P1	\$7.95
 .023" Conical	419-528	1124-0006-P1	\$7.95
 .016" Conical Sharp, Bent 30°, Extended	419-537	1124-0015-P1	\$7.95
 .031" Conical Sharp Extended	419-540	1124-0018-P1	\$7.95
 .023" Conical Sharp Bent 30°	419-543	1124-0021-P1	\$7.95
 .063" Conical Sharp	419-544	1124-0022-P1	\$7.95
 .063" Conical Sharp Extended	419-547	1124-0025-P1	\$7.95
 .023" Conical Sharp	419-549	1124-0027-P1	\$7.95
 .031" Conical Sharp	419-552	1124-0030-P1	\$7.95

Bevel Tip Heater Cartridges

Size and Shape	Part No.	Model	Price
 .047" 30° Bevel	419-531	1124-0009-P1	\$7.95
 .016" 60° Bevel	419-533	1124-0011-P1	\$7.95
 .063" 30° Bevel	419-546	1124-0024-P1	\$7.95
 .031" 30° Bevel	419-551	1124-0029-P1	\$7.95

Chisel Tip Heater Cartridges

Size and Shape	Part No.	Model	Price
 .063" 90° Chisel	419-529	1124-0007-P1	\$7.95
 .047" 30° Chisel	419-530	1124-0008-P1	\$7.95
 .203" Chisel	419-532	1124-0010-P1	\$7.95
 .031" 30° Chisel	419-534	1124-0012-P1	\$7.95
 .094" 30° Chisel	419-535	1124-0013-P1	\$7.95
 .078" 60° Chisel	419-536	1124-0014-P1	\$7.95
 .047" Chisel Bent 30°	419-538	1124-0016-P1	\$7.95
 .063" 60° Chisel	419-539	1124-0017-P1	\$7.95
 .063" 30° Chisel	419-541	1124-0019-P1	\$7.95
 .125" 90° Chisel	419-542	1124-0020-P1	\$7.95
 .125" 90° Chisel Extended	419-545	1124-0023-P1	\$7.95
 .063" Chisel Bent 30°	419-548	1124-0026-P1	\$7.95
 .047" Chisel, Bent 30°, Extended	419-550	1124-0028-P1	\$7.95
 .250" Single-Sided Chisel	419-556	1124-0034-P1	\$7.95

Surface Mount Tip Heater Cartridges

Size and Shape	Part No.	Model	Price
 .156" Heat Staking	419-553	1124-0031-P1	\$7.95
 .250" MiniWave	419-554	1124-0032-P1	\$7.95
 .250" Angled MiniWave	419-555	1124-0033-P1	\$7.95
 .120" Angled MiniWave	419-557	1124-0035-P1	\$7.95
 .250" Flat Blade	419-559	1124-0037-P1	\$7.95



Digital Soldering Station with PS-90 Soldering Iron

Programmable Soldering Station at a Great Price!

- Microprocessor controlled
- User defined operating temperature range
- RTD sensor insures temperature accuracy
- No calibration required
- ESD-Safe

Soldering station features PERMAGROUND™, a patent-pending grounding system that won't fail even at high temperatures. This system prevents damaging levels of voltage that may harm sensitive components. The SensaTemp III heat delivery management system delivers excellent thermal performance, temperature accuracy and responsiveness. Easy to use keypad permits fast and accurate temperature settings with a range of 400°F/204°C to 850°F/454°C. Digital LED displays temperature and calibration status, on-screen icons, auto-off and tip off-set status. Programmable auto-setback feature reduces the tip temperature on demand or after a pre-selected period of inactivity. Features a durable metal housing to allow for the most abusive production environments and includes an under workbench mount kit. Operates on 97/127VAC, 50/60Hz and comes complete with PS-90 soldering iron, and iron holder with sponge. Tips sold separately.

Part No.	Model	Description	Price
418-764	ST45	Digital Solder Station w/PS-90	\$119.00



For an expanded selection of solder equipment visit contacteast.com or jensentools.com



Analog Soldering Station with PS-90 Soldering Iron

Excellent Thermal Performance at a Great Price!

- RTD sensor insures temperature accuracy
- No calibration required
- ESD-Safe

Soldering station features PERMAGROUND™, a patent-pending grounding system that won't fail even at high temperatures. This system prevents damaging levels of voltage that may harm sensitive components. The SensaTemp III heat delivery management system delivers excellent thermal performance, temperature accuracy and responsiveness. Adjustable F/C temperature control dial allows for quick and accurate temperature setting within a range of 400°F/204°C to 850°F/454°C. Features a durable, metal housing to allow for the most abusive production environments and includes an under workbench mount kit. Operates on 97/127VAC, 50/60Hz and comes complete with PS-90 soldering iron, and iron holder with sponge. Tips sold separately.

Part No.	Model	Description	Price
418-760	ST25	Analog Solder Station w/PS-90	\$99.00

PS-90 Production Soldering Iron

■ Iron fits Pace stations

Designed to withstand the rigors of multi-shift production use. Handpiece features PERMAGROUND™, a tip grounding system that is guaranteed not to fail. This system prevents damaging levels of voltage that may harm sensitive components. Soldering iron comes complete with iron holder and sponge.

Part No.	Model	Description	Price
418-769	PS-90	Solder Iron w/Holder	\$99.00
420-190	PS-90	Solder Iron Only	\$69.00
418-770	6010-0095-P1	PS-90 Heater Cartridge	\$55.00
410-129	6019-0050-P1	Tip and Tool Stand for Soldering Irons	\$49.00



SOLDERING TIPS

PAGE

Soldering Tips for PS90, PS80, SP2A & IR70

Tips are 3/16" shank diameter.

Single Point Tips with 3/16" shank for PS-90, PS-80, SP2A & IR70

Packages of 5.

Part No.	Model	Shape	Price/Pkg.
130-209	1121-0358-P5	3/16" Chisel	\$26.75
112-187	1121-0337-P5	1/8" Chisel	\$26.75
112-185	1121-0335-P5	1/16" Chisel	\$26.75
113-691	1121-0349-P5	1/16" Tapered Micro Chisel	\$26.75
112-216	1121-0499-P5	1/16" Long Chisel	\$26.75
130-217	1121-0500-P5	1/16" Long Bent Chisel	\$33.50
112-205	1121-0414-P5	1/16" High Capacity Chisel	\$26.75
112-191	1121-0359-P5	1/32" Chisel	\$26.75
130-210	1121-0361-P5	1/32" Bent Chisel	\$26.75

Single Point Tips with 3/16" shank for PS-90, PS-80, SP2A & IR70

Packages of 5.

Part No.	Model	Shape	Price/Pkg.
112-186	1121-0336-P5	1/32" Conical	\$26.75
112-190	1121-0357-P5	1/64" Conical	\$26.75

Single Point Extended Reach Tips (0.400" longer than standard tips) with 3/16" shank for PS-90, PS-80, SP2A & IR70

Packages of 5.

Part No.	Model	Shape	Price/Pkg.
401-533	1121-0528-P5	1/64" Conical	\$26.75
401-532	1121-0527-P5	1/32" Conical	\$26.75

Single Point Extended Reach Tips (0.400" longer than standard tips) with 3/16" shank for PS-90, PS-80, SP2A & IR70.

Packages of 5.

Part No.	Model	Shape	Price/Pkg.
401-531	1121-0533-P5	1/16" Chisel	\$26.75
401-530	1121-0529-P5	3/32" Chisel	\$26.75

Thermo-Drive Tips with 3/16" shank for PS-90, PS-80, SP2A and IR70

Packages of 5.

Part No.	Model	Shape	Price/Pkg.
401-294	1121-0510-P5	1/16" Chisel	\$33.50
401-292	1121-0518-P5	1/8" Chisel	\$33.50

Surface Mount Installation Tips for PS-90, PS-80, SP2A & IR70

Packages of 5.

Part No.	Model	Shape	Size	Price/Pkg.
112-204	1121-0406-P5	Single Sided Chisel	0.13"	\$26.75

Surface Mount Installation Tips for PS-90, PS-80, SP2A and IR70

Packages of 5.

Part No.	Model	Shape	Size	Price/Pkg.
112-215	1121-0490-P5	Concave Mini-Wave	0.13"	\$33.50

Surface Mount Installation Tips for PS-90, PS-80, SP2A & IR70

Part No.	Model	Shape	Size	Qty.	Price
401-547	1121-0402-P1	Flat Blade	.250"	Each	\$16.50

Surface Mount Installation Tips for PS-90, PS-80, SP2A & IR70

Part No.	Model	Shape	Size	Qty.	Price
112-168	1121-0305-P1	Flat Blade	.400"	Each	\$15.64

Surface Mount Installation Tips for PS-90, PS-80, SP2A & IR70

Part No.	Model	Shape	Size	Qty.	Price
401-548	1121-0512-P1	Flat Blade	.300"	Pkg of 2	\$62.59
401-549	1121-0514-P1	Flat Blade	.400"	Pkg of 2	\$62.59
401-550	1121-0473-P1	Flat Blade	.500"	Pkg of 2	\$62.59
113-698	1121-0416-P1	Flat Blade	.700"	Pkg of 2	\$62.06
401-551	1121-0497-P1	Flat Blade	.800"	Pkg of 2	\$62.59
401-552	1121-0448-P1	Flat Blade	1.00"	Pkg of 2	\$62.06

SOIC Tips for PS-90, PS-80, SP2A & IR70

Removes SOIC components.

Part No.	Model	Application	Tip Size A x B (Inches)	Price/Each
112-196	1121-0390P1	SOIC-8*	.199 x .200	\$31.82
112-197	1121-0391-P1	SOIC-14*	.199 x .354	\$33.14
112-198	1121-0392-P1	SOIC-16*	.199 x .404	\$33.14
* JEDEC				

SMT Chip Component Tips for PS-90, PS-80, SP2A & IR70

Removes resistor and capacitor chip components.

Part No.	Model	Tip Size A x B (Inches)	Price/Each
112-166	1121-0303-P1	.140 x .080	\$15.64

PLCC Removal Tips for PS-90, PS-80, SP2A & IR70

Removes PLCC sockets.

Part No.	Model	Application	Tip Size A x B (Inches)	Price/Each
130-216	1121-0482-P1	PLCC-84	1.15 x 1.15	\$31.82

PQFP Removal Tips for PS-90, PS-80, SP2A & IR70

Removes PQFP type components.

Part No.	Model	Application	Tip Size A x B (Inches)	Price/Each
130-212	1121-0445-P1	PQFP-44/56	.460 x .460	\$45.61



New



New

Shown with optional SX80 desolder handpiece

Shown with optional SX80 desolder handpiece

ST145 Digital SensaTemp Self-Contained Power Supply

Choose Only the Handpieces You Need

- Power supply only
- Self-contained - does not require shop air
- Temperature range is 350° to 900°F nominal
- Digital control with LED display & keypad
- °C/°F dial display options
- Lo-Flo pump
- Snap-Vac technology
- All handpieces sold separately
- Password temperature lockout
- Hi-Flo pump
- Meets or exceeds ANSI-J-STD

The ST145 comes standard with PACE's patented SNAPVAC desoldering technology to ensure quick, clean removal of solder from any through hole joint. The HiFlo pump is so powerful that you won't lose vacuum in continuous use applications when removing residual/ excess solder from surface mount leads. The LoFlo pump is ideal for vacuum wands and for supplying slow moving, low volume air streams for delicate micro/miniature applications such as when installing 0402s and 0201s. The ST 145 is a fully programmable, single channel power source with pressure/vacuum capability. It is sold as a power source only so you can choose the right tools for your job. Power requirements: 197-253VAC, 50/60Hz, 120W max. Optional handpieces shown below.

Part No.	Model	Description	Price
425-600	ST145	Digital Power Supply	\$350.00

ST125 Analog SensaTemp Self-Contained Power Supply

Create a Rework System to Your Requirements

- Power supply only
- Self-contained - does not require shop air
- Temperature range is 350° to 900°F nominal
- Analog control
- °C/°F dial display options
- Lo-Flo pump
- Snap-Vac technology
- All handpieces sold separately
- Password temperature lockout
- Hi-Flo pump
- Meets or exceeds ANSI-J-STD

The ST125 comes standard with PACE's patented SNAPVAC desoldering technology to ensure quick, clean removal of solder from any through hole joint. The HiFlo pump is so powerful that you won't lose vacuum in continuous use applications when removing residual/ excess solder from surface mount leads. The LoFlo pump is ideal for vacuum wands and for supplying slow moving, low volume air streams for delicate micro/miniature applications such as when installing 0402s and 0201s. Power requirements: 197-253VAC, 50/60Hz, 120W max. Optional handpieces shown below.

Part No.	Model	Description	Price
424-399	ST125	Analog Power Supply	\$300.00

Handpieces must be used with Pace stations.

TJ80 Precision ThermoJet®

Precision air pencil that is ideal for delivering concentrated heat for installation and removal of chip components, SOTs, SOICs, PLCCs, and QFPs.

Part No.	Model	Description	Price
423-420	TJ-80 Kit	ThermoJet Handpiece w/Holder	\$149.00

TP-65 ThermoPik® SMD Handpiece w/Vacuum Pick-Up

Provides safe, one-handed reflow and removal of a wide variety of QFPs in just seconds.

Part No.	Model	Description	Price
420-194	TP-65 Kit	ThermoPik Handpiece w/Holder	\$286.00

SX-70 Desoldering Handpiece

General purpose solder extraction handpiece.

Part No.	Model	Description	Price
420-192	SX70 Kit	Desolder Handpiece w/Holder	\$260.00

SX-80 Heavy-Duty Desoldering Handpiece

Solder extractor is designed for high volume applications. Use with the ENDURA™ long lasting desoldering tips.

Part No.	Model	Description	Price
415-184	SX80 Kit	Desolder Handpiece w/Holder	\$260.00



PAGE

Soldering/Desoldering System

Soldering and Self-Contained Desoldering with Full SMT Upgradeability

- Does not require shop air
- Full SMT upgradeability
- Built-in instant rise vacuum supply
- Meets MIL-STD-2000 & EOS/ESD requirements
- With AUTO SNAP-VAC® System

High power, dual channel soldering/desoldering station has 184 watts of total power continuously available between two channels in any proportions. Unit provides the ultimate in thru-hole desoldering with highly responsive closed-loop temperature control. Rapid joint heating and stable tip temperatures are maintained even during heavy thermal demands and continuous use. Temperature range can be set from 450° to 900°F with tip temperature stability of $\pm 2^\circ\text{F}$. Tip temperature offset allows true tip temperature to be set and maintained. The Snap-Vac instant rise vacuum desoldering system has dial adjustable vacuum/pressure control. It can be used as a hot air soldering tool by simply connecting the quick connect/disconnect plug on the tool to the pressure port. Unit allows for complete SMT upgradeability by adding optional handpieces listed below. Station comes complete with: power supply, **SX80 Sodr-X-Tractor®**, heavy-duty **PS-90 soldering iron**, accessory kit, VisiFilter, soldering/desoldering iron holder, tip temperature chart and instruction manual. Operates on 115VAC. Comes with 3 wire power cord.



Part No.	Model	Description	Price
400-726	MBT201-SD	Soldering/Desoldering System	\$850.00
114-441	TT65	ThermoTweez® SMD Handpiece	\$270.40
114-439	TP65	ThermoPik® SMD Handpiece	\$270.40

PAGE

SensaTemp® Self-Contained Analog Desoldering Station

Low Temperature/High Capacity Desoldering of Multi-layer Boards

- Built-in instant rise vacuum supply
- Does not require shop air
- SMT upgradable
- Meets MIL-Specs
- With Auto Snap-Vac® System
- ESD-Safe

SensaTemp® heat control provides high capacity, low temperature desoldering even on heavy multi-layer boards. Heavy duty **SX80 Sodr-X-Tractor®** offers finger tip control of vacuum and easily desolders high sink components. Self-contained vacuum pump features Auto Snap-Vac® quickrise vacuum with an automatic minimum vacuum on-time of 1.2 seconds. Tip clogging and maintenance are virtually eliminated and tip life is dramatically increased. Station has a dial adjustable temperature control with a temperature range of 400°F to 850°F and is temperature stable within $\pm 2^\circ\text{F}$. The ST75SX operates on 115VAC, 50/60Hz and comes complete with power unit, SX80 desolder handpiece, visifilter, accessory kit and handpiece holder with sponge. Optional handpieces instantly upgrade these systems to handle virtually any surface mount component installation and removal requirement. Tips sold separately.

Part No.	Model	Description	Price
411-804	ST75SX	Analog Desoldering Station	\$750.00
418-769	PS-90	Solder Iron w/Holder	\$99.00
114-441	TT65	ThermoTweez® SMD Handpiece	\$270.40
114-439	TP65	ThermoPik® SMD Handpiece	\$270.40

PAGE

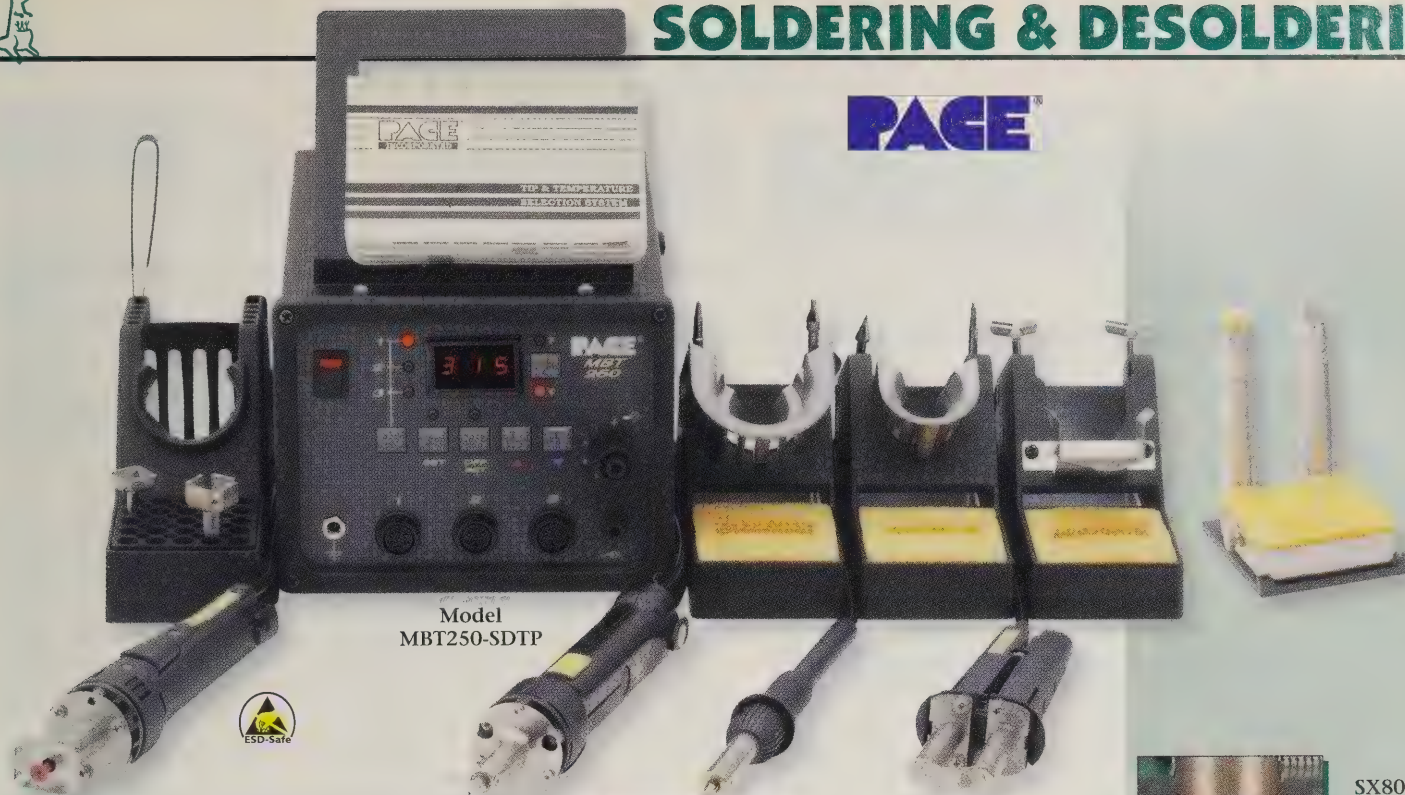
SensaTemp® Self-Contained Digital Desoldering Station

Low Temperature/High Capacity Desoldering of Multi-layer Boards

- Auto-off safety system
- Built-in instant rise vacuum supply
- Does not require shop air
- SMT upgradable
- Meets MIL-Specs
- With Auto Snap-Vac® System
- ESD-Safe

SensaTemp® heat control provides high capacity, low temperature desoldering even on heavy multi-layer boards. **Heavy duty SX80 Sodr-X-Tractor®** offers finger tip control of vacuum and easily desolders high sink components. Self-contained vacuum pump features Auto Snap-Vac® quickrise vacuum with an automatic minimum vacuum on-time of 1.2 seconds. Tip clogging and maintenance are virtually eliminated and tip life is dramatically increased. Station has an LED temperature readout with a range of 400°F to 900°F and is temperature stable within $\pm 2^\circ\text{F}$. The ST115SX operates on 115VAC, 50/60Hz and comes complete with power unit, SX80 desolder handpiece, visifilter, accessory kit and handpiece holder with sponge. Optional handpieces instantly upgrade these systems to handle virtually any surface mount component installation and removal requirement. Tips sold separately.

Part No.	Model	Description	Price
411-805	ST115SX	Digital Desoldering Station	\$750.00
418-769	PS-90	Solder Iron w/Holder	\$99.00
114-441	TT65	ThermoTweez® SMD Handpiece	\$270.40
114-439	TP65	ThermoPik® SMD Handpiece	\$270.40



Model
MBT250-SDTP



Model
MBT250-SD

SMT/Thru-Hole Assembly and Repair System

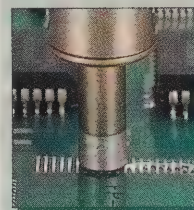
Safe Installation and Removal of Virtually All Surface Mount and Thru-Hole Components

- Built-in instant rise vacuum supply
- Soldering
- Does not require shop air
- Desoldering
- SMD reflow tweezers
- Meets MIL-STD-2000 and all EOS/ESD requirements
- With AUTO SNAP-VAC® System

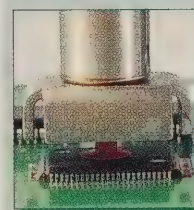
This three channel system can power up to three handpieces delivering 180 watts of total power in any proportion. Independently controlled channels allow three different handpieces and tips to be operated simultaneously at different temperatures providing a high degree of flexibility and convenience for one or two operators. Microprocessor-controlled power supply allows different temperature settings for each channel — all easily entered on front panel keys. Auto tip temperature offset compensation system allows you to set and display true tip temperatures, regardless of size and type of tip or handpiece. The C°/F° key allows temperatures to be set and displayed in either Centigrade or Fahrenheit. Idle temperatures can be set between 100°F and 900°F as well as minimum and maximum temperature ranges for all three channels independently. Auto Snap-Vac® features a 1.2 second minimum vacuum "on time" when a handpiece switch is depressed. This helps prevent the handpiece from clogging due to short airflow duration. To extend tip life, a Setback feature automatically reduces tip temperature to 350°F after a preselected interval of 10-90 minutes. A Manual mode allows the operator to put all channels into Setback on demand. For added safety, an Auto-Off feature eliminates the possibility of leaving the unit on overnight, preserving tips and heaters, while saving energy. All temperature settings, offsets, ranges, and calibrations for each channel are retained

in a non-volatile memory for later use, even after the unit is turned off. System comes complete with: **SX80 Sodr-X-Tractor®** desoldering handpiece (for desoldering thru-hole components); a **TP65 ThermoPik** handpiece with integral vacuum pickup for reflow and removal of PQFPs; **PS-90 soldering iron** (can be used for small SMDs as well as heavy thru-hole soldering); and a **TT-65 ThermoTweez** high power reflow tweezer (for SMD removal). All handpieces can be interchanged without recalibration and are engineered for maximum comfort. Handles are molded entirely of static-dissipative plastic for ESD safety. Also included: accessory kit, VisiFilter, tip and tool holders, tip maintenance station, and instruction manual. Operates on 115VAC, comes with 3-wire cord and is UL listed. Two models to choose from: **Model MBT250-SDTP** is the complete system described above. **Model MBT250-SD** is a soldering/desoldering system and includes: power supply (same as MBT250-SDTP), SX80 Sodr-X-Tractor, PS-90 heavy-duty soldering iron, soldering/desoldering iron holders, VisiFilter, tip cleaning sponge, an accessory kit, and an instruction manual with tip temperature chart.

Part No.	Model	Description	Price
400-725	MBT250-SDTP	Solder/Desolder Station with Four Handpieces	\$1,665.00
400-724	MBT250-SD	Solder/Desolder Station with Two Handpieces	\$1,200.00



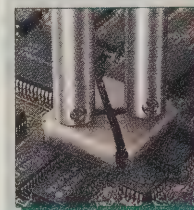
SX80



TP65



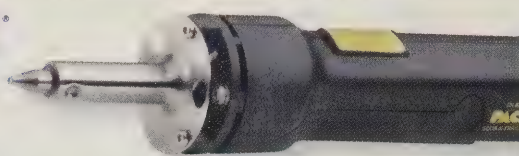
PS-90



TT65



SX80 Desoldering Handpiece



Improved handpiece design, now with disposable paper chambers and quick change heating element. Handpiece must be used with Pace stations.

Part No.	Model	Description	Price
415-183	SX80	Desoldering Handpiece	\$234.00
416-785	6019-0060-P1	Tip and Tool Stand	\$49.00
415-186	1309-0054-P10	Solder Flux Chamber, 10/pkg.	\$11.00
415-185	1309-0054-P100	Solder Flux Chamber, 100/pkg.	\$99.00

Endura Desoldering Tips for SX80 & SX70

Tips are virtually non-clogging which require less maintenance and cleaning, saving time.

Endura Thermo Drive Desoldering Tips

Package of 5.

Part No.	Model	I.D. Nominal (inches) (mm)	O.D. Reference (inches) (mm)	Price/Pkg.
412-830	1121-0625-P5	.030 0.76	.080 2.03	\$41.00
412-831	1121-0624-P5	.040 1.02	.090 2.29	\$41.00
412-832	1121-0626-P5	.060 1.52	.120 3.05	\$41.00
412-833	1121-0627-P5	.090 2.29	.200 5.10	\$41.00

Endura Extended Reach Thermo-Drive Desoldering Tips

Tips have an extended nose for improved visibility and reach. Package of 5.

Part No.	Model	I.D. Nominal (inches) (mm)	O.D. Reference (inches) (mm)	Price/Pkg.
412-834	1121-0628-P5	.030 0.76	.090 2.29	\$41.00
412-835	1121-0629-P5	.040 1.02	.100 2.54	\$41.00
412-836	1121-0630-P5	.060 1.52	.120 3.05	\$41.00

Endura Precision Desoldering Tips

Recommended for thru-hole desoldering in tight areas. Package of 5.

Part No.	Model	I.D. Nominal (inches) (mm)	O.D. Reference (inches) (mm)	Price/Pkg.
412-837	1121-0680-P5	.020 0.50	.070 1.79	\$21.00
412-838	1121-0678-P5	.030 0.76	.080 2.03	\$21.00
412-839	1121-0679-P5	.040 1.02	.090 2.29	\$21.00
412-840	1121-0690-P5	.060 1.52	.110 2.79	\$21.00

Endura Flo-D-Sodr Desoldering Tips

Recommended for surface mount land and Via desoldering. Package of 5.

Part No.	Model	I.D. Nominal (inches) (mm)	O.D. Reference (inches) (mm)	Price/Pkg.
412-842	1121-0631-P5	.060 1.52	.188 4.78	\$41.00

Endura Flo-D-Sodr Precision Desoldering Tips

Recommended for surface mount land and Via desoldering. Package of 5.

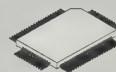
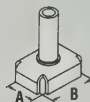
Part No.	Model	I.D. Nominal (inches) (mm)	O.D. Reference (inches) (mm)	Price/Pkg.
412-843	1121-0681-P5	.020 0.50	.070 1.78	\$29.25
412-844	1121-0682-P5	.030 0.76	.080 2.03	\$29.25
412-845	1121-0683-P5	.040 1.02	.090 2.29	\$29.25



ThermoPik® SMD Handpiece with Vacuum Pick-Up

Handpieces must be used with Pace stations. Tips sold separately.

Part No.	Model	Description	Price
114-439	TP65	ThermoPik® SMD Handpiece	\$270.40
416-785	6019-0060-P1	Tip and Tool Stand	\$49.00



Tips for TP-65 ThermoPik®

Part No.	Model	Application	Tip Size A x B (inches)	Price
112-183	1121-0322-001P1	Flat Pack	0.61 x 0.85	\$45.87
112-184	1121-0322-002P1	Flat Pack	0.66 x 0.90	\$45.87
113-681	1121-0323-P1	BQFP-68	0.62 x 0.62	\$45.87
130-227	1121-0484-P1	QFP-64/80	0.62 x 0.62	\$62.59
113-682	1121-0324-P1	PQFP-84	0.72 x 0.72	\$45.87
113-683	1121-0325-P1	PQFP-100	0.82 x 0.82	\$45.87
113-684	1121-0326-P1	PQFP-132	1.02 x 1.02	\$45.87
130-222	1121-0456-P1	PQFP-144	1.15 x 1.15	\$62.59
112-188	1121-0351-P1	PQFP-160/208	1.22 x 1.22	\$62.06
130-226	1121-0483-P1	PQFP-196	1.43 x 1.43	\$62.59

Replacement Vacuum Cups for TP-65 ThermoPik®

Part No.	Model	Description	Diameter (inches)	Price
130-218	1121-0382-P5	Cup, Small	0.175	\$9.95
130-288	1121-0383-P5	Cup, Medium	0.300	\$9.95
130-219	1121-0384-P5	Cup, Large	0.500	\$9.95

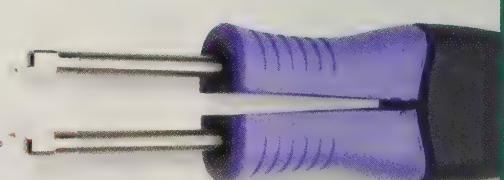
Vacuum Cup Kit

Part No.	Model	Description	Price
130-221	6993-0153-P1	Cup Kit, One of Each Size Cup	\$4.33

New



PACE®



MT-100 MiniTweez™

Allows you to remove a wide variety of SMD's quickly and easily even on compact high thermal mass PCB's with small hard to reach components.

Part No.	Model	Description	Price
420-585	MT-100	Minitweez w/Holder	\$140.00

Tips for MT-100

Come 2 per package.

Part No.	Model	Size	Price/Pkg
420-586	1124-1001-P1	0.2mm	\$45.00
420-587	1124-1002-P1	0.5mm	\$45.00
420-588	1124-1003-P1	1mm	\$45.00
420-589	1124-1004-P1	2mm	\$45.00
420-590	1124-1005-P1	6mm	\$45.00
420-591	1124-1006-P1	8mm	\$45.00
420-592	1124-1007-P1	10mm	\$45.00
420-593	1124-1008-P1	13mm	\$45.00



SX70 Desoldering Handpiece

Handpiece must be used with Pace stations.

Part No.	Model	Description	Price
114-425	SX70	Desoldering Handpiece Only	\$234.00
420-192	SX70 Kit	Desolder Handpiece w/Holder	\$260.00

Desoldering Tips for SX70

Thermo-Drive, 3/16" Shank

Package of 5.

Part No.	Model	I.D. Nominal (inches) (mm)	O.D. Reference (inches) (mm)	Price/Pkg.
113-693	1121-0367-P5	.030 0.76	.060 1.52	\$30.75
113-690	1121-0342-P5	.040 1.02	.070 1.78	\$30.75
113-694	1121-0368-P5	.060 1.52	.100 2.54	\$30.75
130-231	1121-0507-P5	.090 2.29	.190 4.80	\$30.75

Long-Life Thermo-Drive, 3/16" Shank

Features an inner steel liner for added protection against oxidation and tip wear. Package of 5.

Part No.	Model	I.D. Nominal (inches) (mm)	O.D. Reference (inches) (mm)	Price/Pkg.
130-224	1121-0463-P5	.040 1.02	.085 2.16	\$61.53
130-225	1121-0464-P5	.060 1.52	.106 2.69	\$61.53

Extended Reach, 3/16" Shank

Tips have an extended nose for improved visibility and reach. Package of 5.

Part No.	Model	I.D. Nominal (inches) (mm)	O.D. Reference (inches) (mm)	Price/Pkg.
130-228	1121-0494-P5	.040 1.02	.085 2.16	\$30.00
130-230	1121-0506-P5	.060 1.52	.106 2.69	\$30.75

Flo-D-Sodr™ High Mass, 3/16" Shank

For surface mount land preparation. Package of 5.

Part No.	Model	I.D. Nominal (inches) (mm)	O.D. Reference (inches) (mm)	Price/Pkg.
113-695	1121-0369-P5	.060 1.52	.187 4.76	\$30.75

Desoldering Tips for SX65A, SX55A, SX40A

Angled Tips, 1/8" Shank

Package of 5.

Part No.	Model	I.D. Nominal (inches) (mm)	O.D. Reference (inches) (mm)	Price/Pkg.
113-679	1121-0262-P5	.040 0.91	.072 1.83	\$16.00

Adaptip, 3/16" Shank

Allows Micro and Angled tips to be used with SX-70 Sodr-X-Tractor®. Package of 5.

Part No.	Model	Description	Price/Pkg.
113-749	1360-0083-P5	Adaptip	\$37.86



ThermoTweez® SMD Removal Handpiece

Handpieces must be used with Pace stations. Tips sold separately.

Part No.	Model	Description	Price
114-441	TT65	ThermoTweez® SMD Handpiece	\$270.40
417-476	6019-0056-P1	Tip and Tool Stand	\$49.00

Tips for TT-65 ThermoTweez®

Package of 2.

Part No.	Model	Application	Price
112-175	1121-0313-P1	Large Chip	\$56.75
112-177	1121-0316-P1	PLCC-20	\$56.75
112-178	1121-0317-P1	PLCC-28	\$56.75
112-179	1121-0318-P1	PLCC-44, PQFP-84	\$56.75
112-180	1121-0319-P1	PLCC-52, PQFP-100	\$61.53
112-181	1121-0320-P1	PLCC-68, PQFP-132	\$61.53
112-182	1121-0321-P1	PLCC-84, PQFP-160	\$61.53
112-189	1121-0352-P1	PLCC-32	\$55.42



ThermoJet® Hot Air SMD Handpiece

Handpieces must be used with Pace stations.

Part No.	Model	Description	Price
114-438	TJ70	ThermoJet® Hot Air SMD Handpiece	\$270.40
416-785	6019-0060-P1	Tip and Tool Stand	\$49.00

Tips for TJ-70 ThermoJet®

Part No.	Model	Application	Price
113-688	1121-0338-P1	Single Jet	\$49.00

Part No.	Model	Application	Price
113-692	1121-0365-P1	Flat End Tip	\$49.00

Part No.	Model	Application	Price
113-686	1121-0330-P1	SOIC Dual Jet	\$79.00



New



ST300 Hot Air System

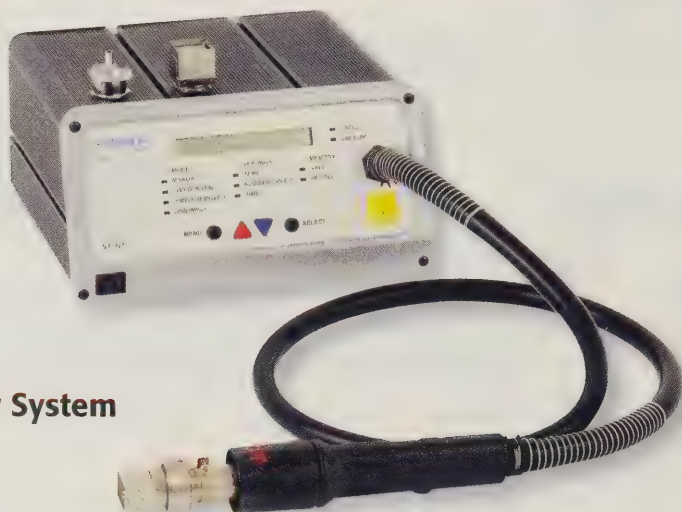
**Low Cost
Hot Air with
High Performance**

- Self-contained pump
- Does not require shop air
- Closed-loop temperature control
- Metal housing ■ Stackable

System can be used to remove any SMD or for installing components with a limited number of leads that can be positioned manually. The ST300 is self-contained hot air system with analog (dial) controls for both temperature and airflow. Unit offers a temperature range of 350°F to 900°F (nominal) and airflow of 5-25 slpm. The heavy-duty, durable metal housing ensures years of service. Both cycle start and vacuum functions are activated with conveniently located switches on the handpiece. System comes complete with Lo-Flo pump and the PV-65 vacuum wand for manipulating components manually. Power requirements: 575W max at 97-127VAC, 50/60Hz. Dimensions: 5.25"H x 10.25"W x 9.75"D and weighs 9.5lbs. Nozzles sold separately.

Part No.	Model	Description	Price
424-304	ST300	Rework System	\$995.00

New



ST325 Digital Hot Air System

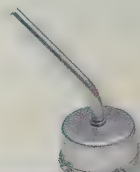
**Affordable
Programmable
Hot Air System**

- Self-contained pump
- User definable temperature zone
- Store & recall up to 20 profiles
- Audible countdown timer for end of cycle indication
- Does not require shop air
- Multi-level password lock-out
- Blower offers nearly silent operation

Self-contained system is fully programmable and can be used to remove or install surface mount components when individual or multiple operations are to be run. System can operate in manual or "timed" modes. Manual mode means that the system generates airflow when the cycle button is pressed; when it is pressed a second time the system shuts off. "Timed" mode allows the operator to create up to 20 profiles that consist of time and temperature parameters to ensure process control repeatability. Both cycle start and vacuum functions are activated with conveniently located switches on the handpiece. Heavy-duty durable metal housing ensures years of service. System comes complete Lo-Flo pump and the PV-65 vacuum wand. Power requirements: 575W max at 97-127VAC, 50/60Hz. Dimensions: 5.25"H x 10.25"W x 9.75"D and weighs 9.5lbs. Nozzles sold separately.

Part No.	Model	Description	Price
424-301	ST325	Digital Rework System	\$1,295.00

Nozzles for Hot Air Systems



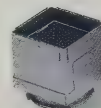
Single Jet

Part No.	Model	Application	Size (Inches)	Price/Ea.
405-722	4028-1001	Single Jet	0.1 dia.	\$95.00
405-721	4028-1002	Single Jet	0.2 dia.	\$95.00



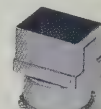
SOIC Removal Nozzles

Part No.	Model	Application	Size (Inches)	Price/Ea.
405-705	4028-4001	SOIC-8	0.15" x 0.2"	\$115.00
405-704	4028-4002	SOIC-14/16	0.15" x 0.41"	\$115.00
405-703	4028-4003	SOIC-14/16	0.3" x .41"	\$115.00
405-702	4028-4004	SOIC-20	0.3" x 0.51"	\$115.00
405-701	4028-4005	SOIC-24	0.3" x 0.61"	\$115.00
405-700	4028-4006	SOIC-28	0.3" x 0.71"	\$115.00



BGA Removal Nozzles

Part No.	Model	Application	Size (Inches)	Price/Ea.
405-699	4028-5001	BGA-225	1.03" x 1.03"	\$125.00



PLCC Removal Nozzles

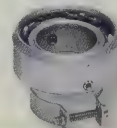
Part No.	Model	Application	Size (Inches)	Price/Ea.
405-720	4028-2001	PLCC-18	0.34" x 0.48"	\$125.00
405-719	4028-2002	PLCC-20	0.41" x 0.41"	\$125.00
405-718	4028-2003	PLCC-28	0.51" x 0.51"	\$125.00
405-717	4028-2004	PLCC-32	0.50" x 0.61"	\$125.00
405-716	4028-2005	PLCC-44	0.71" x 0.71"	\$125.00
405-715	4028-2006	PLCC-52	0.81" x 0.81"	\$125.00
405-714	4028-2007	PLCC-68	1.0" x 1.0"	\$125.00
405-713	4028-2008	PLCC-84	1.2" x 1.2"	\$125.00
405-712	4028-2009	PLCC-100	1.5" x 1.5"	\$125.00

QFP Removal Nozzles

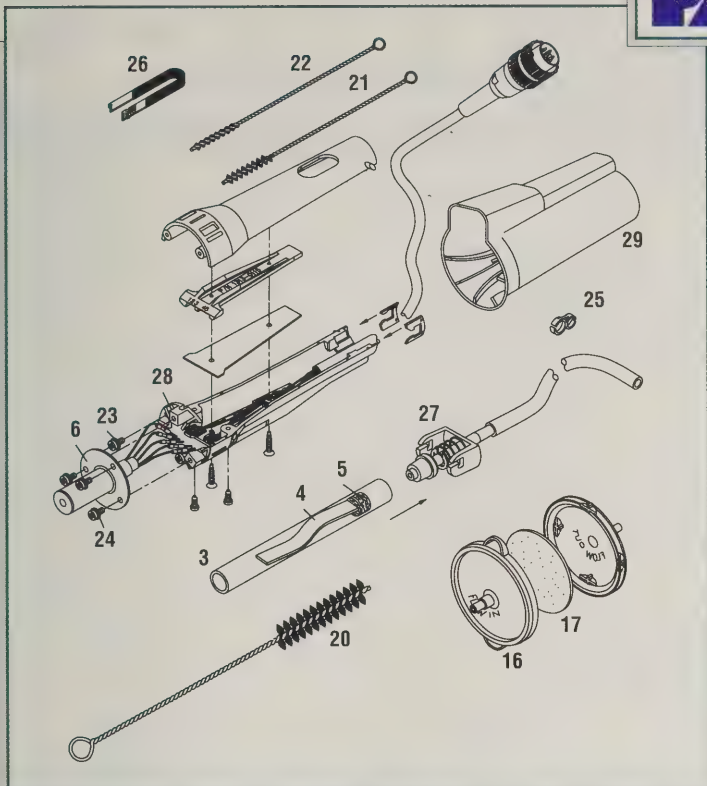
Part No.	Model	Application	Size (Inches)	Price/Ea.
405-711	4028-2501	QFP-80/100	0.72" x 0.95"	\$125.00
405-710	4028-2502	QFP-64/80	0.67" x 0.67"	\$125.00
405-709	4028-2503	QFP-132	1.1" x 1.1"	\$125.00
405-708	4028-2504	QFP-160	1.3" x 1.3"	\$125.00
405-707	4028-2505	QFP-208	1.2" x 1.2"	\$125.00
405-706	4028-2506	QFP-240	1.4" x 1.4"	\$125.00

Common Adapter

Adapter allows you to use Pace nozzles shown on this page with Hakko and OK Industries stations.

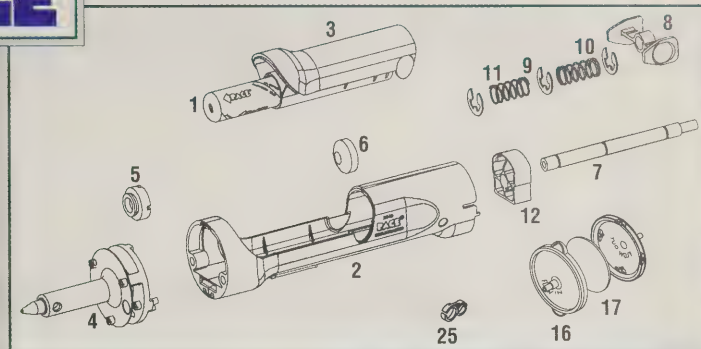


Part No.	Model	Application	Price/Ea.
405-698	4028-0001	Common Adapter	\$175.00



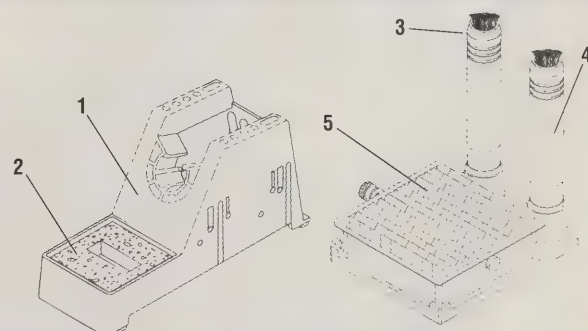
Desolder Handpiece Replacement Parts for SX40A, SX55A, SX65A & SX70

Part No.	Model	No.	Description	Price
113-717	1265-0009-P1	3	Glass Chamber	\$9.00
113-827	4010-0033	4	S" Baffle	\$2.16
113-726	1309-0018-P10	5	Sodr-X-Tractor Filter, Pkg 10	\$3.52
113-727	1309-0018-P50	5	Sodr-X-Tractor Filter, Pkg 50	\$15.14
113-948	6010-0080-P1	6	SX-70 Heater & Seal Assembly	\$81.12
401-271	4010-0098-P1	7	SX-70 Switch & Cord Assembly	\$59.49
113-975	6993-0134	9	SX-65A & SX-55A Switch & Cord Assembly Kit	\$75.71
113-713	1213-0033	10	Front Seal, Heater (SX70, SX-65A, SX-55A)	\$5.41
113-745	1348-0547-P10	13	Set Screws, for SX-70 heaters & older heaters, date coded 1/90 or later	\$9.73
113-728	1309-0020	15	VisiFilter, Fixed	\$8.65
113-732	1309-0028	16	VisiFilter, Replaceable	\$11.90
113-729	1309-0027-P10	17	Replaceable VisiFilter Elements, Pkg 10	\$9.73
113-730	1309-0027-P25	17	Replaceable VisiFilter Elements, Pkg 25	\$20.55
113-731	1309-0027-P50	17	Replaceable VisiFilter Elements, Pkg 50	\$33.53
113-740	1342-0001-14	18	Tubing, 66 Length (Translucent Silicon Rubber)	\$10.40
416-160	4010-0106-P1	19	Rear Seal Retainer Assembly	\$12.98
113-700	1127-0002-P5	20	Bristle Brush Pkg/5	\$16.22
401-254	1127-0014-P5	21	Wire Brush (3/16"), Pkg 5	\$18.00
113-701	1127-0006-P5	22	Wire Brush (1/8"), Pkg/5	\$20.00
113-105	1405-0534-P3	23	Dissipator Mounting Screws (mounts dissipator to handle)	\$4.33
113-104	1405-0395-P3	24	Heater Mounting Screws (mounts heater to dissipator)	\$4.33
113-102	1321-0085-01-P6	25	Hose Clamps	\$6.49
113-667	1100-0206	26	Tip Tool	\$9.73
113-711	1213-0001	27	Rear Seal (SX70, SX65A, SX55A)	\$5.41
113-748	1360-0005	28	Heat Dissipator (SX70, SX65A, SX55A)	\$9.73
113-742	1346-0065	29	Thermal Insulative Handpiece Sleeve (optional)	\$8.65



Desolder Handpiece Replacement Parts for SX80

Part No.	Model	No.	Description	Price
415-185	1309-0054-P100	1	Solder Flux Chamber, 100/pkg.	\$99.00
415-186	1309-0054-P10	1	Solder Flux Chamber, 10/pkg.	\$11.00
416-775	6010-0115-P1	2	Handle Assembly	\$162.24
416-776	1119-0141-P1	3	Door Assembly	\$22.71
416-195	6010-0107-P1	4	Heater Assembly	\$81.12
416-777	1213-0087-P1	5	Front Seal	\$5.41
416-778	1213-0086-P1	6	Rear Seal	\$5.41
416-779	1261-0154-P1	7	Plunger Shaft	\$11.90
416-780	1500-0063-P1	8	Plunger Lock	\$17.31
416-781	1348-0387-P1	9	"C" Clips Pkg/3	\$5.41
416-782	1221-0136-P1	10	Spring "Long Side"	\$5.41
416-783	1221-0137-P1	11	Spring "Short Side"	\$5.41
416-784	1119-0142-P1	12	Door Lock	\$10.82
113-728	1309-0020	15	VisiFilter, Fixed	\$8.65
113-732	1309-0028	16	VisiFilter, Replaceable	\$11.90
113-729	1309-0027-P10	17	Replaceable VisiFilter Elements, Pkg 10	\$9.73
113-730	1309-0027-P25	17	Replaceable VisiFilter Elements, Pkg 25	\$20.55
113-731	1309-0027-P50	17	Replaceable VisiFilter Elements, Pkg 50	\$33.53
417-061	1342-0015-08	—	Tubing, 54" Length Black	\$10.40
113-102	1321-0085-01-P6	25	Hose Clamps	\$6.49
401-266	1259-0086	25	Hose Fitting, Female (Quick Disconnect)	\$3.24
406-371	1259-0087	—	Disconnect, Quick Male Hose	\$3.24
113-735	1325-0003-01	—	Tubing, PVC, 6' Length	\$5.20



Accessories for SensaTemp Handpieces

Part No.	Model	No.	Description	Price
410-129	6019-0050-P1	1	Tip and Tool Stand for Soldering Irons	\$49.00
400-487	4021-0008-P3	2	Sponges for Tip and Tool Stands (SX, PS, SP), Pkg/3	\$10.82
401-237	1100-0232	3	Fiber Cleaning Tool Holder and Filler for Surface Mount Tips	\$17.31
401-313	1127-0013-P2	—	Replacement Fiber Filler (for Fiber Cleaning Tool)	\$16.49
401-236	1100-0233	4	Sponge Cleaning Tool Holder and Sponge for Surface Mount Tips	\$17.31
401-272	4021-0006-P3	—	Replacement Sponge Filler (for Sponge Cleaning Tool), Pkg/3	\$9.73
401-273	4021-0007-P7	5	Sponges for Tip Maintenance Station, Pkg/7	\$7.57

HERALDING A REVOLUTION



Uncomparable heat transfer

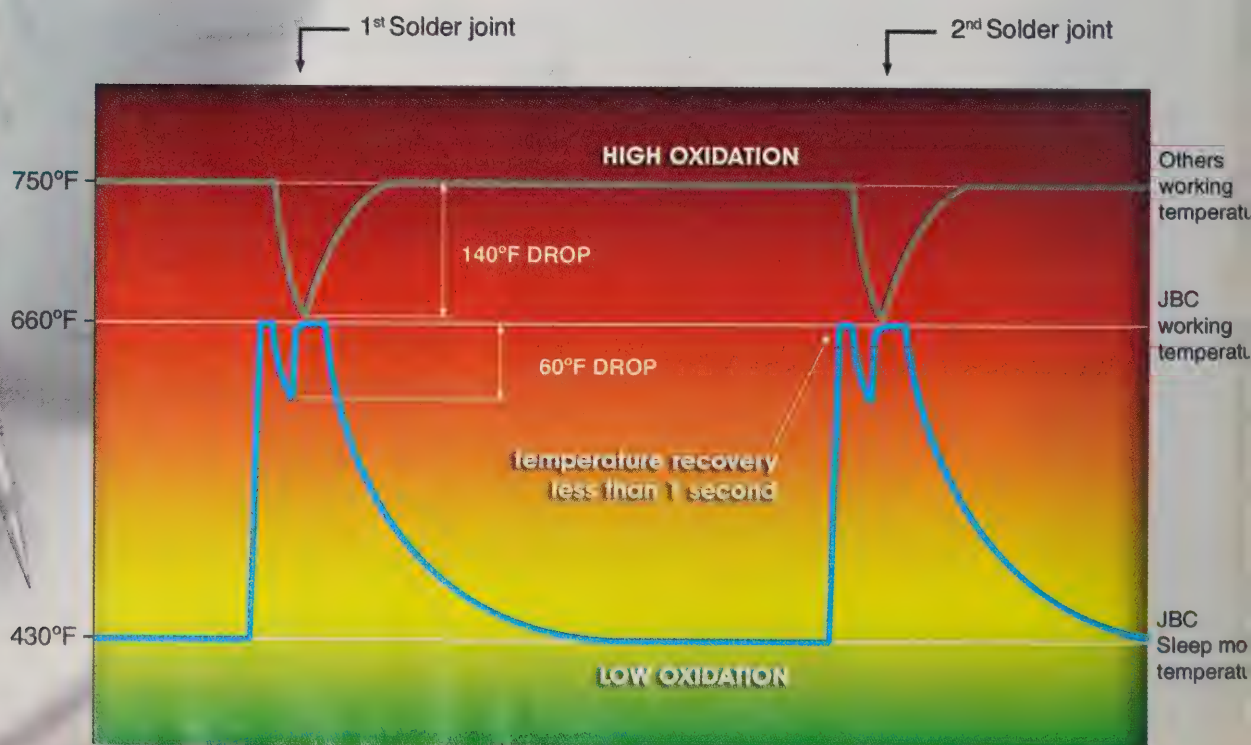
JBC's unique heating system is based on a microprocessor drive on a compact cartridge, actual size shown on your left.

Since the resistance and the thermocouple are one single element, thermal distances with the tip are extremely short. This configuration low mass -high power cartridge ensures the fastest temperature recovery and most efficient heat delivery, enabling you to deal with any application and in most cases at a lower temperature.

Tip life 5 times longer

Oxidation is the primary reason why tips wear. All JBC stations feature an automatic sleep mode so every time your tip is not being used it is resting at a temperature where oxidation rate is much lower with a come back time equivalent to those shown in the diagrams here above. Sleep and shut-off modes allow you to experience tip life 3 to 5 times longer than any other.

When assessing the overall cost of your soldering tools, other parameters such as throughput, downtime or even dedicated staff for maintenance should be included. With an increased productivity thanks to its superior heat transfer, less downtime thanks to the fast recovery and tip exchange system, a 4 year warranty and no need for calibration, JBC soldering stations truly bring you a much lower cost of ownership.





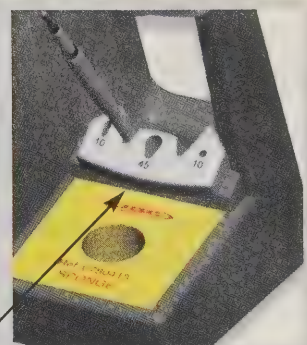
ADVANCED
SERIES



Advanced Series Soldering & Rework Systems

- Outstanding tip life: lasts up to five times longer
- "Intelligent" iron stand lowers operating temperature when iron is at rest
- Remove iron from stand - operating temperature is instantaneous
- Tip cartridge extractor system is built-in to stand
- Low temperature soldering: minimum risk of damage, even for lead-free applications
- Ergonomic & lightweight handpieces
- No calibration required

The exclusive new JBC microprocessor driven heating system ensures a fast heat recovery that enables you to perform at lower temperatures than ever before. The JBC advanced series stations have achieved a real revolution in security and cleanliness when soldering.



Two in One

The cartridge extractor system in the stand and the instant heat response enable switching cartridge models without interrupting work, resulting in multiple soldering irons in one.



New



AD2700 Soldering Station

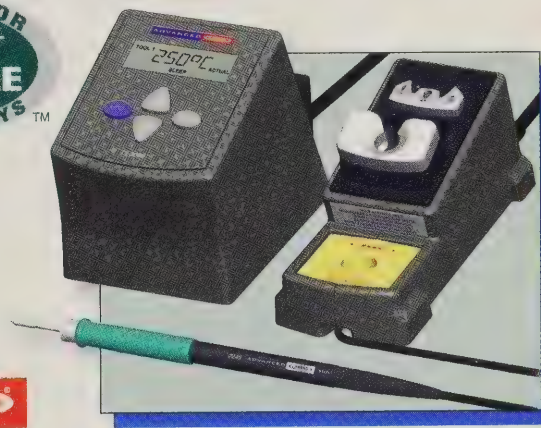
Station Allows You to Lower Your Operating Costs

- 50 watt soldering iron
- Temperature selection between 200°F and 750°F
- Sleep mode
- Shut-off mode
- "Intelligent" iron stand

This powerful analog soldering station features an integrated iron stand that is aware when the soldering iron is in the stand and reduces the temperature, remaining in a "sleep cycle". Once the soldering iron is taken out of the stand, the tip temperature is instantaneously recovered. This results in longer tip life and lower operating costs. Stand also incorporates a tip cartridge inserter/extractor to avoid the handling of the tip. Station operates on 120VAC. Comes complete with power unit, 50 watt soldering iron, stand and 1mm conical tip cartridge. Optional 20 watt soldering iron sold separately.

Part No.	Model	Description	Price
424-319	AD2700	Analog Soldering Station	\$391.00
423-095	2210	20 Watt Soldering Iron	\$65.00

DESIGNED FOR
CONVENTIONAL
&
LEAD-FREE
SOLDER ALLOYS™



DI3000 Digital Soldering Station

Operate Two Handpieces Simultaneously

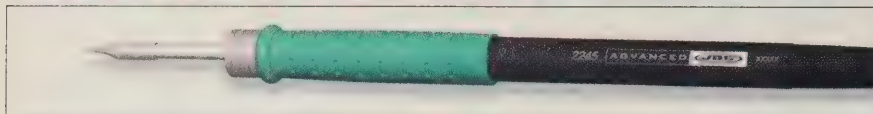
- 50 watt soldering iron
- Digital read-out
- Temperature selection between 200°F and 700°F
- "Intelligent" iron stand

Station allows you to connect two handpieces; work with one handpiece and have the other handpiece in the stand at "sleep" temperature. When you need the other handpiece take it out of the stand and the tip temperature is instantaneously recovered. Station can also be used with optional hot tweezers, 100 watt tweezer part number is 423-064 and 40 watt hot tweezer is 423-037 and an optional 20 watt soldering iron, part number 423-095. Station operates on 120VAC. Comes complete with power unit, 50 watt soldering iron, stand and 1mm conical tip.

Part No.	Model	Description	Price
423-033	DI3000	Digital Soldering Station	\$671.00
423-064	PA4200	100 Watt Hot Tweezer	\$143.00
423-037	PA1200	40 Watt Micro Hot Tweezer	\$155.00
423-095	2210	20 Watt Soldering Iron	\$65.00



SOLDERING & DESOLDERING



**Outstanding Tip-Life:
Lasts Up To Five Times Longer**

As soon as the soldering iron is left on the stand, the tip temperature automatically drops to 440°F-540°F / 250°C, decreasing the wear on the tip resulting in a working life three to five times longer than that of a conventional tip. When the soldering iron is taken out of the stand again, the tip temperature is instantaneously recovered. The sensor-resistance set is shielded to make it indestructible.



**ADVANCED
SERIES**



Tip Cartridges for the 2245 50 Watt Advanced Series Soldering Iron

	Size	Shape	Part No.	Model	Price
	.4mm	Conical	423-053	2245-032	\$23.00
	.4mm	Long Conical	423-056	2245-036	\$28.00
	.6mm	Conical	423-044	2245-001	\$23.00
	.4mm	Bent Conical	423-054	2245-034	\$23.00
	.4mm	Long Bent Conical	423-051	2245-029	\$25.00
	.6mm	Bent Conical	423-055	2245-035	\$26.00
	1mm	Chisel	423-047	2245-006	\$23.00
	2mm	Chisel	423-048	2245-007	\$23.00
	3mm	Chisel	423-050	2245-011	\$23.00
	4.6mm	Chisel	423-049	2245-008	\$23.00
	1mm	Round	423-045	2245-003	\$23.00
	1.3mm	Angled	423-046	2245-005	\$23.00
	2.5mm	Mini Spoon	423-052	2245-031	\$37.00
	3.5mm	Mini Spoon	423-057	2245-038	\$37.00
	6mm	Bevel Edge	423-058	2245-039	\$37.00

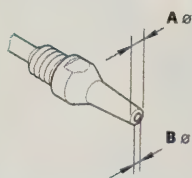
Lead Free Tip Cartridges for the 2245 50 Watt Advanced Series Soldering Iron

These cartridges are made to last longer in lead-free applications because of their extra tough plating.

	Size	Shape	Part No.	Model	Price
	1.2mm	Round	423-482	2245-903	\$31.00
	.5mm	Conical	423-483	2245-930	\$31.00
	1.2mm	Chisel	423-484	2245-906	\$31.00
	2.3mm	Chisel	423-485	2245-907	\$31.00
	5mm	Chisel	423-486	2245-908	\$31.00



Desoldering Tips for the DR5600 Handpiece



Part No.	Model	A	B	Price
423-066	5600-001	1.4mm	0.6mm	\$19.00
423-067	5600-002	1.8mm	0.8mm	\$19.00
423-068	5600-003	2.7mm	1mm	\$19.00
423-069	5600-004	3.2mm	1.3mm	\$19.00
423-070	5600-005	3.4mm	1.6mm	\$19.00
423-071	5600-006	4.2mm	2mm	\$19.00
423-072	5600-007	4.8mm	2.5mm	\$19.00



Micro Hot Tweezers

- 40 watt handpiece
- Lightweight-only 0.4 oz.

Designed to perform soldering and desoldering on SMD components, from micro-components up to medium size. Each cartridge is individually controlled by the microprocessor located inside the control unit, ensuring fast heat-up, accuracy and recovery. Can be connected to any Advanced soldering station except for the AD2200, JT7000 and TE5000. Tweezer tip cartridges sold separately.

Part No.	Model	Description	Price
423-037	PA1200	40 Watt Micro Hot Tweezer	\$155.00
423-035	PA8110	Stand for PA1200 Micro Tweezer	\$111.00
423-038	1200-001	.2mm Tip, 1/Pkg	\$33.00
423-039	1200-002	.2mm Angled Tip, 1/Pkg	\$33.00
423-040	1200-003	3mm Tip, 1/Pkg	\$33.00
423-041	1200-004	.7mm Tip, 1/Pkg	\$33.00
423-042	1200-005	5mm Tip, 1/Pkg	\$33.00

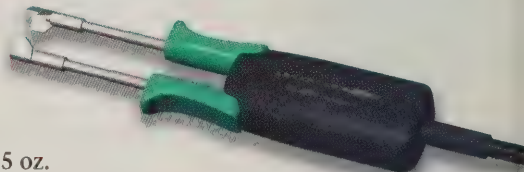


Hot Tweezers

- 100 watt handpiece
- Lightweight-only 0.5 oz.

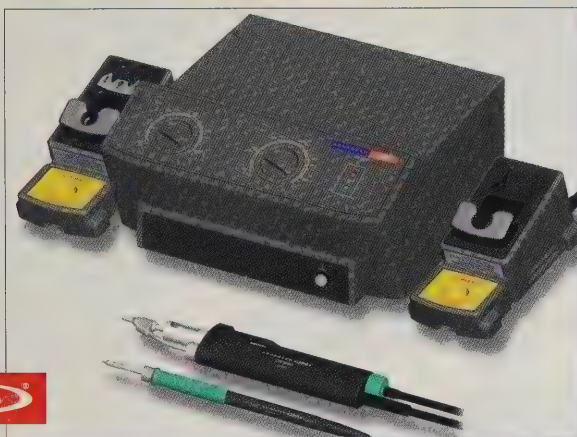
Designed to desolder and solder small and medium sized SMDs. Each cartridge is individually controlled by the microprocessor located inside the control unit, ensuring fast heat-up, accuracy and recovery. Can be connected to any Advanced soldering station except for the AD2200, JT7000 and TE5000. Tweezer tip cartridges sold separately.

Part No.	Model	Description	Application	Price
423-064	PA4200	100 Watt Hot Tweezer	-	\$143.00
423-036	PA8120	Stand for PA4200 Hot Tweezer	-	\$111.00
422-545	2245-272	2.5mm Tip, 1/Pkg	Chip Components	\$38.00
423-059	2245-275	8mm Tip, 1/Pkg	Dual In Line CI	\$43.00
422-789	2245-276	10mm Tip, 1/Pkg	Dual In Line CI	\$43.00
423-060	2245-278	20mm Tip, 1/Pkg	Dual In Line CI	\$43.00
423-061	2245-279	8mm Tip, 1/Pkg	For QFP & PLCC	\$45.00
423-062	2245-280	11mm Tip, 1/Pkg	For QFP & PLCC	\$45.00





ADVANCED SERIES



AR5800 Soldering/Desoldering Station

- Self-contained vacuum pump (does not require shop air)
- Quiet vacuum pump
- 50 watt soldering iron & 75 watt desoldering handpiece
- Operate 2 handpieces simultaneously with different temperature settings
- Temperature selection between 200°F and 700°F
- "Intelligent" iron stands

Rework/repair station allows you to solder and desolder through hole components as well as clean solder pads in SMD circuit repair. Station features JBC's advanced technology for quick temperature recovery, sleep mode, the light-weight and manageability of the soldering and desoldering handpieces. Desolder handpiece is easy to clean and maintain and comes with 2 different collection tubes - metal and glass. Station operates on 120VAC. Comes complete with power unit, 50 watt soldering iron, 75 watt desoldering handpiece, stands, a 1mm conical solder tip, a 1.7mm desolder tip, set of tools and accessories.

Part No.	Model	Description	Price
423-073	AR5800	Solder/Desolder Station	\$1,320.00

Easy Calibration

Since the Advanced technology is based on a microprocessor drive, it is not necessary to recalibrate any of the Advanced Stations but, if required, calibration of the soldering tips can easily be done thanks to the TI 2800 Thermometer and the AC 2600 Console.



AC2600 Console

- Selection of temperature in °C or °F
- Adjust working temperature
- Set maximum working temperature
- Modify sleep temperatures
- Modify time before entering into sleep mode
- Adjust temperatures up to 99°F

Designed to modify the original regulation program parameters of any of the following Advanced Stations: AD2200, DI3000, AD4300, AR5800, AM6500.



Part No.	Model	Description	Price
423-063	AC2600	Console	\$341.00



AD4300 Dual Soldering/Rework Station

Reaches Tip Temperature Instantaneously

- 50 watt soldering iron & 40 watt micro tweezer
- Operate 2 handpieces simultaneously with different temperature settings
- Temperature selection between 200°F and 700°F
- "Intelligent" iron stands

Dual soldering station allows the operation of 2 tools at the same time: soldering iron or hot tweezers. Each channel of the control unit is totally independent from the other and can operate at different temperatures. The handpiece stands are "Intelligent" as they can detect when the handpiece is resting in the stand which enters into a sleep mode. This means the tip temperature is reduced, obtaining a longer tip life. Station operates on 120VAC. Comes complete with power unit, 50 watt soldering iron, 40 watt hot tweezer, stands, a 1mm conical solder tip and two 2mm conical tweezer tips. Optional 20 watt iron and 100 watt hot tweezers sold separately.

Part No.	Model	Description	Price
423-065	AD4300	Solder/Rework Station	\$1,032.00
423-095	2210	20 Watt Soldering Iron	\$65.00
423-064	PA4200	100 Watt Hot Tweezer	\$143.00

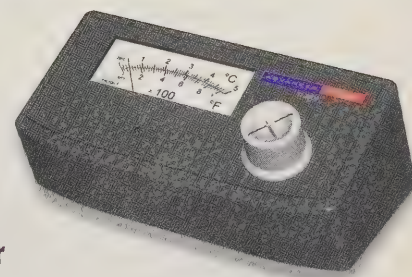


TI2800 Thermometer

A Vital Accessory for Measuring Tip Temperatures

- Range 40° to 90°F
- Replaceable sensor
- Accuracy ±2%
- Resolution 20°F
- Can be calibrated

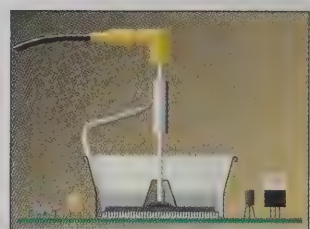
Allows you to measure the temperature of soldering tips accurately. To verify sleep temperature an interconnecting cable is included. Does not need a power supply.



Part No.	Model	Description	Price
423-093	TI2800	Thermometer	\$300.00



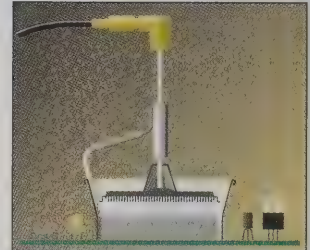
New



Position the extractor



Hot-air melts the solder



IC is removed automatically

JT7700 High Power Hot Air Station

- Self-contained air pump with electronic control
- Temperature selection of 200°F to 850°F
- Vacuum pump for holding ICs
- Air flow regulation of 6-45 l/min.

Designed for desoldering all types of SMDs. A powerful heater enables quick and safe desoldering of even the biggest QFPs and PLCCs. In addition, it can desolder small and medium sized BGAs in a short time span. This system uses it extractors/protectors and hot air which allows you to desolder in a quick, safe and clean method while protecting the surrounding components . A medium-sized QFP, for example, can be desoldered in 20 seconds. Station is 900 watts and operates on 120VAC. Comes complete with power unit, handpiece, extractor stand with 5 extractors, 5 protectors and 2 tripods, control pedal, heater stand and set of accessories.

Part No.	Model	Description	Price
425-602	JT7700	High Power Hot Air Station	\$2,390.00



AM6500 Rework Station

- Self-contained vacuum pump (does not require shop air)
- Quiet vacuum pump
- 50 watt soldering iron
- 75 watt desoldering handpiece
- Hot air handpiece
- Pick and place pencil
- "Intelligent" iron stands

Station is designed for rework and repair of through hole and SMD components. Consists of four modules that cover the main rework applications.

Hot Air: Allows you to desolder any size SMD component. Use hot air in conjunction with the included protectors and extractors for safe, clean and quick desoldering. Allows you to concentrate on the IC and protect the rest of the circuit at the same time. A medium SMD can be soldered in less than 20 seconds. Temperature range is 300°F to 850°F.

Desoldering: For SMTs and cleaning through-hole and pads. Temperature range is 200°F to 700°F.

Pick & Place Pencil: Offers suction to aid in component positioning.

Soldering: Allows you to solder and desolder all types of components with swift response, high power and fast recovery. Temperature range is 200°F to 700°F.

Station operates on 120VAC. Comes complete with power unit, hot air hand-piece, desoldering handpiece, pick & place pencil, 50 watt soldering iron, 3 stands, extractor stand with: 5 extractors, 5 protectors, 2 tripods, set of tips and accessories.




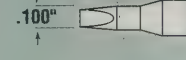
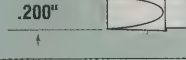
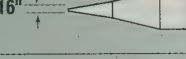






Part No.	Model	Description	Price
423-074	AM6500	Rework Station	\$3,200.00



PS-800 Soldering Heater Tips

Tips are available in four temperature ranges: 600, 650, 700 and 750 degrees.

	Size	Shape	Part No.	Model	Temperature Series	Price
	.040"	30° Chisel	423-487	PHT-600315	600	\$9.00
			423-488	PHT-650315	650	\$9.00
			423-489	PHT-700315	700	\$9.00
			423-490	PHT-750315	750	\$9.00
	.060"	30° Chisel	424-062	PHT-601325	600	\$9.00
			424-063	PHT-651325	650	\$9.00
			424-064	PHT-700325	700	\$9.00
			424-065	PHT-750325	750	\$9.00
	.070"	30° Chisel	423-491	PHT-600335	600	\$8.00
			423-492	PHT-650335	650	\$8.00
			423-493	PHT-700335	700	\$8.00
			423-494	PHT-750335	750	\$8.00
	.100"	30° Chisel	424-066	PHT-601355	600	\$8.00
			424-067	PHT-651355	650	\$8.00
			424-068	PHT-701355	700	\$8.00
			424-069	PHT-751355	750	\$8.00
	.200"	30° Extra Large Chisel	424-003	PHT-601384	600	\$9.00
			424-004	PHT-651384	650	\$9.00
			424-005	PHT-701384	700	\$9.00
			424-006	PHT-751384	750	\$9.00
	.016"	Sharp Conical	424-012	PHT-602035	600	\$9.00
			424-013	PHT-652035	650	\$9.00
			424-014	PHT-702035	700	\$9.00
			424-015	PHT-752035	750	\$9.00
	.020"	Sharp Conical Bent 30°	424-021	PHT-602337	600	\$8.00
			424-022	PHT-652337	650	\$8.00
			424-023	PHT-702337	700	\$8.00
			424-024	PHT-752337	750	\$8.00
	.040"	Sharp Conical	424-070	PHT-602057	600	\$10.00
			424-071	PHT-652057	650	\$10.00
			424-072	PHT-702057	700	\$10.00
			424-073	PHT-752057	750	\$10.00
	.020"	Long Reach Mini Hoof	424-029	PHT-604617	600	\$10.00
			424-030	PHT-654617	650	\$10.00
			424-031	PHT-704617	700	\$10.00
			424-032	PHT-754617	750	\$10.00
	.120"	Small Sharp Knife	424-074	PHT-605437	600	\$10.00
			424-075	PHT-655437	650	\$10.00
			424-076	PHT-705437	700	\$10.00
			424-077	PHT-755437	750	\$10.00



DESIGNED FOR
CONVENTIONAL
&
LEAD-FREE
SOLDER ALLOYS™

PS-800 Soldering System

Metcal Technology at an Affordable Price

- Uses SmartHeat® technology
- Does not require calibration
- Compact power supply

Ideal soldering system that combines the best of Metcal technology with the size, performance at an affordable price. This system combines the power and process control advantages of Metcal's SmartHeat® with the system quality and innovative design. Ideal for repetitive manual assembly and touch-up. System uses replaceable heater tips in an unique two-piece design that separates the heater coil from the tip. The long-life heater coil remains in the handle and the tips contain the heater and are easily removed and replaced. Comes complete with power supply, soldering iron and workstand with sponge. Tips sold separately.

Part No.	Model	Description	Price
423-451	PS-800	Soldering System	\$250.00

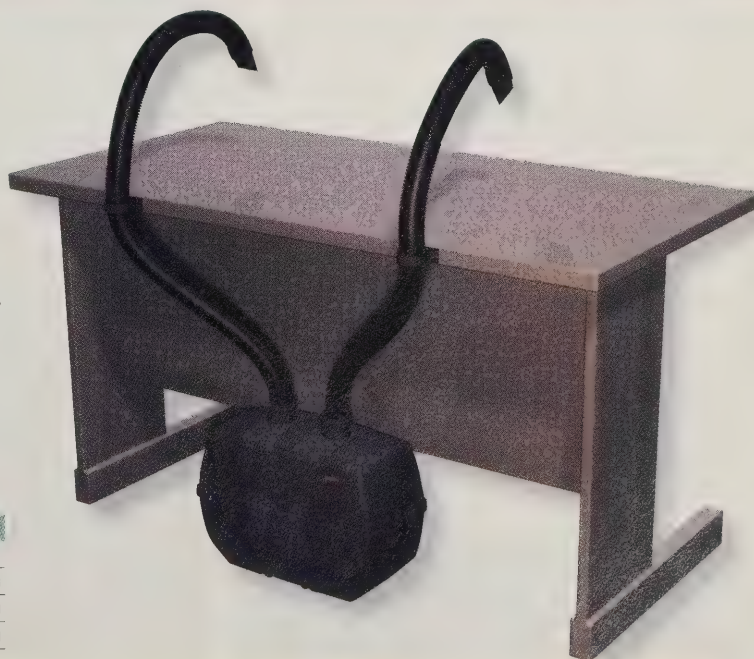
BVX-200 Fume Extraction System

Compact and Portable with High Performance

- Comes with 2 fume extraction arms
- Easy to install
- Efficient and quiet operation

Fume extraction system with two fume extraction arms is compact and portable. Unit features a strong fan performance with efficient filtration and quiet, flexible operation. Compact enough to go under the workbench, the unit provides multi-user power in a truly portable system that can be easily transported by one person without the strain induced by larger units. Maximum free-blowing airflow is rated at 250m³/h, with maximum suction force at 850Pa, a high suction rating offered by a compact unit. Unit comes with pre- and main filters. Main filter offers HEPA efficiency of more than 99.5% and an activated carbon filter. Easy to install; plug into a power source and it is ready for use. Comes complete with filtration unit, 2 - 4 ft. flexible arms and pre, HEPA and gas filters.

Part No.	Model	Description	Price
424-037	BVX-201-Kit	Fume Extraction Unit w/2 Arms	\$725.00
424-038	FP-BVX200	Pre-Filter, Pkg/5	\$49.00
424-039	FM-BVX200	Main HEPA Filter	\$89.00
424-040	FG-BVX200	Deep Bed Gas Filter	\$165.00





METCAL

The SmartHeat® Company

No Need for Calibration-Ever

- Exceeds MIL Specs
- Eliminates thermal damage

Metcal's SmartHeat® systems are capable of soldering a wide range of applications from high, thermal-mass ground planes to flex circuits and SMDs. Unlike conventional systems, which rely on stored energy, Metcal systems deliver direct power

on demand, limiting the risk of damaging components. This allows you to rework components faster at lower temperatures. These systems use the combined technologies of electronics and metallurgy. The power units generate a high-frequency, constant-current to the tip-cartridge in the soldering handpiece. Current is confined and flows through a high-resistance ferro-magnetic outer layer of tip generating heat. When the curie point of this layer is reached, the current migrates to the low-resistance inner layer of the tip with a corre-

sponding reduction of heat. Because this phenomenon is infinitely reversible, the tip temperature becomes self-regulating and controlled within $\pm 2^\circ$ F. Recovery time is less than two seconds. Tip to ground potential is less than 2mV. With the physics-driven heat delivery regulation built into the tip cartridge no calibration is required. This makes compliance with ISO 9000 easy. A "no calibration" letter is available. Power supplies come with a two year warranty (handle cord assemblies have a one year warranty).



DESIGNED FOR
CONVENTIONAL
&
LEAD-FREE
SOLDER ALLOYS™



METCAL

MX-500S Soldering/SMT Rework System

- ESD-Safe

The soldering handpiece allows you to solder and rework SMT components with the appropriate tip cartridge. Features automatic time-out: when the tip cartridge has not been used in the last 30 minutes the system will automatically shut-off. This will maximize the life of your tip cartridge. System comes complete with two port switchable power supply (MX500P), soldering handpiece (MX-RM3E), workstand (MX-WS4), sponge (AC-YS3) and cartridge removal pad (AC-CP2). Tip cartridges sold separately. Soldering handpiece accepts all soldering and SMT rework tip cartridges.

Tip cartridges are listed on pages 518 and 519.

Part No.	Model	Description	Price
406-016	MX-500S-11	Soldering/SMT System	\$670.00
406-022	MX-RM3E	Replacement Handpiece	\$87.55



Choosing the Correct Soldering Tip

Pick a tip geometry that will maximize contact with the connection. A flat, blunt tip will transfer more heat than a fine, pointed one. Choosing the largest tip possible will both improve performance and tip life.

Soldering Tip Cartridges for MX Systems

Choosing the Correct Temperature (Series)

Using a lower temperature helps prevent thermal damage and significantly enhances your tip life. Each Metcal tip is designed for high power delivery, so you can often solder with a tip at a temperature 100°F lower than with a conventional iron. Since Metcal tips sense thermal loads and respond to them, all you need to do is choose the temperature series. For most applications, a **600 Series** will provide enough power and flexibility. Switch to a **700 Series** where necessary, such as when working with heavy ground planes.

Size and Shape	Part No.	Model	Temperature Series	Price
	406-701	STTC-017	600	\$22.60
	406-233	STTC-117	700	\$22.60
	406-084	STTC-036	600	\$22.60
	406-237	STTC-136	700	\$22.60
	406-085	STTC-037	600	\$22.60
	406-238	STTC-137	700	\$22.60
	406-086	STTC-038	600	\$22.60
	406-239	STTC-138	700	\$22.60
	406-082	STTC-025	600	\$22.60
	406-235	STTC-125	700	\$22.60
	406-081	STTC-022	600	\$22.60
	406-234	STTC-122	700	\$22.60
	406-707	STTC-043	600	\$22.60
	406-242	STTC-143	700	\$21.95
	406-709	STTC-047	600	\$21.95
	406-245	STTC-147	700	\$22.60
	406-230	STTC-045	600	\$22.60
	406-244	STTC-145	700	\$22.60
	406-231	STTC-041	600	\$22.60
	406-713	STTC-141	700	\$21.95
	406-232	STTC-044	600	\$22.60
	406-243	STTC-144	700	\$22.60
	406-087	STTC-040	600	\$22.60
	406-240	STTC-140	700	\$22.60
	406-083	STTC-026	600	\$22.60
	406-236	STTC-126	700	\$22.60



Register online to receive
updates on the newest products
and on the latest specials.

SMT Rework Cartridges for MX Systems

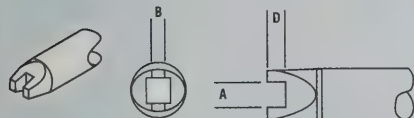
Choosing the Correct Temperature (Series)

Using a lower temperature helps prevent thermal damage and significantly enhances your tip life. Each Metcal tip is designed for high power delivery, so you can often rework with a tip at a temperature 100°F lower than with a conventional iron. For most applications, a **600 Series** will provide enough power and flexibility. Switch to a **700 Series** only where absolutely necessary.

Choosing the Correct Rework Tip

First, measure the dimensions of your component. Then using the table below, look up your component description and cross match it to the dimensions listed. The tip you choose must match your component. A "near fit" is not good enough for most applications. The leads must be contacted on all sides, ensuring even performance.

SLOT



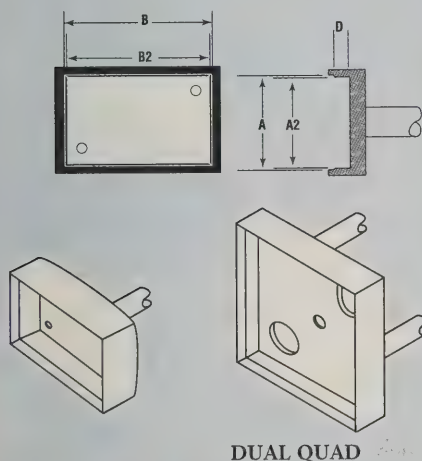
Slot Cartridges							
SMD Component	Part No.	Style	Dimensions			Temperature Series	Price
			Width (A)	Length (B)	Depth (D)		
Chip 0805	406-034	SMTC-001	.090"	.050"	.070"	600	\$36.50
	406-705	SMTC-101	.090"	.050"	.070"	700	\$36.50
Chip 1206, 1210	406-035	SMTC-002	.140"	.060"	.070"	600	\$36.50
	406-706	SMTC-102	.140"	.060"	.070"	700	\$36.50
SOT-23	406-036	SMTC-005	.068"	.100"	.050"	600	\$36.50
	406-708	SMTC-105	.068"	.100"	.050"	700	\$36.50

TUNNEL



Tunnel Cartridges								
SMD Component	Part No.	Style	Dimensions				Temperature Series	Price
			Width (A2)	Width (A)	Length (B)	Depth (D)		
SOIC-14, -16	406-037	SMTC-006	.200"	.200"	.400"	.090"	600	\$41.75
	406-710	SMTC-106	.200"	.200"	.400"	.090"	700	\$41.75
SOIC-20	406-038	SMTC-010	.375"	.375"	.520"	.125"	600	\$41.75
	406-711	SMTC-110	.375"	.375"	.520"	.125"	700	\$41.75

QUAD/DUAL QUAD



Quad/Dual Quad Cartridges									
SMD Component	Part No.	Style	Dimensions					Temperature	Price
			Width (A2)	Width (A)	Length (B2)	Length (B)	Depth (D)	Series	
PLCC-18	406-712	SMTC-011	.300"	.300"	.500"	.530"	.100"	600	\$65.50
	406-044	SMTC-111	.300"	.330"	.500"	.530"	.100"	700	\$65.50
PLCC-20	406-714	SMTC-012	.360"	.400"	.360"	.400"	.100"	600	\$65.50
	406-045	SMTC-112	.360"	.400"	.360"	.400"	.100"	700	\$65.50
PLCC-28	406-715	SMTC-013	.455"	.500"	.455"	.500"	.100"	600	\$65.50
	406-063	SMTC-113	.455"	.500"	.455"	.500"	.100"	700	\$65.50
PLCC-44	406-716	SMTC-014	.660"	.700"	.660"	.700"	.100"	600	\$65.50
	406-064	SMTC-114	.660"	.700"	.660"	.700"	.100"	700	\$65.50
PLCC-68 Dual	406-717	SMTC-028	.960"	.995"	.960"	.995"	.140"	600	\$139.00
	406-066	SMTC-128	.960"	.995"	.960"	.995"	.140"	700	\$139.00
PLCC-84 Dual	406-720	SMTC-029	1.165"	1.195"	1.165"	1.195"	.140"	600	\$139.00
	406-067	SMTC-129	1.165"	1.195"	1.165"	1.195"	.140"	700	\$139.00
QFP-100	406-721	SMTC-043	.650"	.650"	.885"	.885"	.130"	600	\$97.00
	406-068	SMTC-143	.650"	.650"	.885"	.885"	.130"	700	\$97.00
QFP-120, -160 Dual	406-722	SMTC-048	1.165"	1.200"	1.165"	1.200"	.120"	600	\$139.00
	406-069	SMTC-148	1.165"	1.200"	1.165"	1.200"	.120"	700	\$139.00

Blade Cartridges for MX-Series Stations

Blade cartridges may be used with solder wick to clean up pads for both two and four-sided components regardless of the lead configuration or pitch. Choose the size of the blade tip that best fits the row of pads.

Size	Part No.	Style	Temperature Series	Price
.410" Long	406-039	SMTC-060	600	\$83.00
	406-070	SMTC-160	700	\$83.00
.620" Long	406-040	SMTC-061	600	\$83.00
	406-071	SMTC-161	700	\$83.00
.870" Long	406-041	SMTC-062	600	\$83.00
	406-072	SMTC-162	700	\$83.00

Multi-Lead Soldering Cartridges for MX-Series Stations

Multi-lead cartridges may be used for replacing most component configurations, gull-winged and J-lead, regardless of the number of leads or the lead pitch. The "hoof tip" cartridge (this tip is shaped like a horse's hoof) is used when access is not a problem for "drag soldering" applications. The "mini hoof" is designed for soldering PLCCs or QFPs in confined spaces.

Type	Part No.	Style	Temperature Series	Price
Hoof Tip	406-042	SMTC-0147	600	\$43.80
	406-073	SMTC-1147	700	\$43.80
Mini Hoof Tip	406-043	SMTC-0167	600	\$43.80
	406-723	SMTC-1167	700	\$43.80



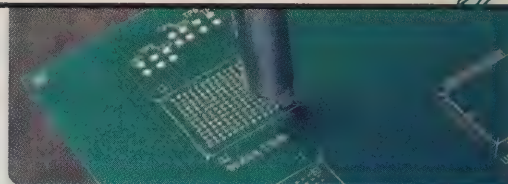
MX-500DS Soldering/Desoldering and SMT Rework System

■ Requires shop air ■ ESD-Safe

Includes two handpieces: a soldering handpiece and desoldering handpiece. The soldering handpiece allows you to solder and rework SMT components with the appropriate tip cartridge. Desoldering handpiece has disposable solder collection liner. Features automatic time out: when the tip cartridge has not been used in the last 30 minutes the system will automatically shut-off. This will maximize the life of your tip cartridge.

System comes complete with two port switchable power supply (MX500P), desoldering handpiece (MX-DS1), desoldering cord (MX-RM8E), air hose with fitting (MX-DAH4), workstand (MX-WSS), soldering handpiece (MX-RM3E), workstand (MX-WS4), two sponges, (AC-YS3-P), two cartridge removal pads (AC-CP2), cleaning brush (AC-CB1-P), tube cleaning brush (AC-CB2-P), desoldering tip cleaner (AC-TC-P), and chamber liner and filter pack (MX-DCF1). Requires shop air 60-100 psig. Tip cartridges sold separately. Soldering handpiece accepts all soldering and SMT tip cartridges. Desoldering handpiece accepts all desoldering tip cartridges. Soldering and SMT tip cartridges are listed on pages 518 and 519.

Part No.	Model	Description	Price
406-017	MX-500DS-11	Solder/Desolder System	\$1,050.00



Choosing the Correct Temperature (Series)

Metcal's desoldering tips are designed for high heat transfer, making desoldering on multi layer boards much easier. Desoldering tips are available in three temperature ranges (600, 700 and 800 series). The **600 Series** tips are used for thermally sensitive components and single-sided boards. The **700 Series** tips are ideal on most boards and typical applications. The **800 Series** tips will help for the most stubborn jobs when a higher temperature is required.

Desoldering Tip Cartridges for MX Systems

Part No.	Style	Dimensions		Temperature Series	Price
		Inside (A)	Outside (B)		
406-724	STDC-002	.025"	.055"	600	\$37.65
406-074	STDC-102	.025"	.055"	700	\$37.65
406-725	STDC-802	.025"	.055"	800	\$55.65
406-726	STDC-003	.030"	.066"	600	\$37.65
406-075	STDC-103	.030"	.066"	700	\$37.65
406-078	STDC-803	.030"	.066"	800	\$55.65
406-727	STDC-004	.040"	.070"	600	\$37.65
406-076	STDC-104	.040"	.070"	700	\$37.65
406-079	STDC-804	.040"	.070"	800	\$55.65
406-728	STDC-005	.050"	.080"	600	\$37.65
406-077	STDC-105	.050"	.080"	700	\$37.65
406-080	STDC-805	.050"	.080"	800	\$55.65



MX500TS TALON Soldering/SMT Rework System

■ ESD-Safe

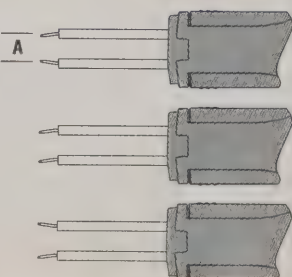


Includes two handpieces: a soldering handpiece and a "tweezer style" handpiece. The soldering handpiece allows you to solder and rework SMT components with the appropriate tip cartridge. The ergonomic "tweezer style" handpiece is designed for easy removal of SMT components. Features automatic time out: when the tip cartridge has not been used in the last 30 minutes the system will automatically shut-off. This will maximize the life of your tip cartridge. System comes complete with two port switchable power supply (MX-500P), Talon handpiece (MX-TALON), workstand (MX-WSS), soldering handpiece (RM3E), workstand (MX-WS4), two sponges (AC-YS3-P), and two cartridge removal pads (AC-CP2). Tip cartridges sold separately. Soldering handpiece accepts all soldering and SMT tip cartridges. Talon tweezer handpiece accepts all Talon tweezer tip cartridges. Soldering and SMT tip cartridges are shown on pages 518 and 519.

Part No.	Model	Description	Price
406-018	MX-500TS-11	Talon/Soldering Rework System	\$1,000.00

Choosing the Correct Talon Tip Cartridge

TALON cartridges are designed to handle multiple applications. By simply rotating the tips, you can remove 28-pin SOIC's, tantalums, and 0603 chip caps without changing tips. Measurement "A" refers to the minimum and maximum distance between two cartridges when used together in the TALON in the three possible configurations shown right.



Choosing the Correct Temperature (Series)

Each Metcal tip cartridge is designed to deliver high power in response to loads. For this reason, you can often work with a Metcal cartridge at a temperature lower than with a conventional iron. **500 Series** cartridges will work well for most applications.

TALON Tip Cartridges

Type	Part No.	Style	"A"	Temperature Series	Price/Set
Fine Point Tips	406-029	TATC-501	0.03"-0.37"	500	\$103.00
	406-030	TATC-601	0.03"-0.37"	600	\$103.00
Blades 0.25"	406-729	TATC-502	0.00"-0.36"	500	\$103.00
	406-031	TATC-602	0.00"-0.36"	600	\$103.00
Blades 0.62"	406-730	TATC-503	0.06"-0.42"	500	\$103.00
	406-032	TATC-603	0.06"-0.42"	600	\$103.00
Blades 0.81"	406-731	TATC-504	0.10"-0.47"	500	\$103.00
	406-033	TATC-604	0.10"-0.47"	600	\$103.00



METCAL

SP200 Soldering/SMT Rework System

- Exceeds MIL-Specs
- ESD-Safe
- No need for calibration-ever
- Eliminates thermal damage

Compact and economical, this system is ideal for thru-hole and SMT touch-up. System delivers direct power on demand, limiting the risk of damaging components. The power unit generates a high-frequency, constant-current to the tip-cartridge in the soldering handpiece. Current is confined and flows through a high-resistance ferro-magnetic outer layer of the tip generates heat. When the curie point of this layer is reached, the current migrates to the low-resistance inner layer of the tip with a corresponding reduction of heat. Because this phenomenon is infinitely reversible, the tip temperature becomes self regulating and controlled within $\pm 2^\circ\text{F}$. Recovery time is less than two seconds. Tip to ground potential is less than 2mV. With the physics driven heat delivery regulation built into the tip cartridge, no calibration is required. This makes compliance with ISO9000 easy. A "no calibration" letter is available. Comes complete with power supply (SP-PW1), soldering handpiece (SP-HC1), workstand with sponge (SP-WSK1) and cartridge removal pad (STSS-CP2). Tip cartridges sold separately.

Part No.	Model	Description	Price
406-028	SP200	Soldering/Rework System	\$310.00



Choosing the Correct Soldering Tip



CORRECT



TOO SMALL

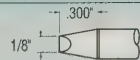
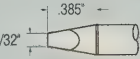

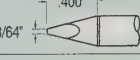
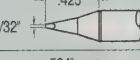
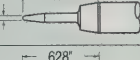
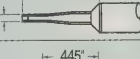
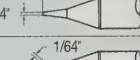
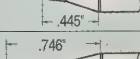
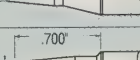


TOO LARGE

Pick a tip geometry that will maximize contact with the connection. A flat, blunt tip will transfer more heat than a fine, pointed one. Choosing the largest tip possible will both improve performance and tip life.

Soldering Tip Cartridges for SP200 Choosing the Correct Temperature (Series)

Using a lower temperature helps prevent thermal damage and significantly enhances your tip life. Each Metcal tip is designed for high power delivery, so you can often solder with a tip temperature 100°F lower than with a conventional iron. Since Metcal tips sense thermal loads and respond to them, all you need to do is choose the temperature series. For most applications, a **600 Series** will provide enough power and flexibility. Switch to a **700 Series** where necessary, such as when working with heavy ground planes.

Size and Shape		Part No.	Style	Temperature Series	Price
	1/8"	406-859	SSC-613A	600	\$17.50
	90° Chisel	406-255	SSC-713A	700	\$17.50
	3/32"	406-249	SSC-636A	600	\$15.50
	30° Chisel	406-260	SSC-736A	700	\$15.50
	1/16"	406-250	SSC-637A	600	\$15.50
	30° Chisel	406-261	SSC-737A	700	\$15.50
	3/64"	406-251	SSC-638A	600	\$15.50
		406-262	SSC-738A	700	\$15.50
	1/32"	406-247	SSC-625A	600	\$15.50
	30° Chisel	406-258	SSC-725A	700	\$15.50
	1/32"	406-860	SSC-601A	600	\$15.50
	Conical Sharp	406-861	SSC-701A	700	\$15.50
	1/16"	406-252	SSC-642A	600	\$17.50
	60° Chisel	406-862	SSC-742A	700	\$17.50
	1/64"	406-246	SSC-622A	600	\$15.50
	Conical Sharp	406-257	SSC-722A	700	\$15.50
	1/64"	406-248	SSC-626A	600	\$15.50
	Sharp Bent 30°	406-259	SSC-726A	700	\$15.50
	1/64"	406-253	SSC-645A	600	\$15.50
	Conical Sharp	406-867	SSC-745A	700	\$15.50
	1/8"	406-864	SSC-639A	600	\$25.28
	Multi-Lead Speed Solder	406-865	SSC-739A	700	\$25.28

METCAL

SP440 Self-Contained Desoldering System

- Does not require shop air
- 50 watts of power
- ESD-Safe

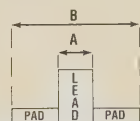
Self-contained desoldering system features a whisper quiet, self-contained vacuum pump which delivers a powerful vacuum capable of cleaning through-holes quickly and completely. Vacuum risetime is 25ms to 12 in/Hg. 50 Watts of power make it ideal for heavy load desoldering of components on heavy ground plane and multilayer PCBs. This system uses Metcal's SmartHeat technology to deliver more power at lower temperatures than conventional desoldering tools. This minimizes the risk of thermal damage during rework. The lightweight ergonomic pencil grip desolder tool is designed to maximize operator control and comfort while reducing operator fatigue during work. Desolder handpiece has disposable solder collection liners. Features automatic time-out: when the tip cartridge has not been used in the last 30 minutes the system will automatically shut off. This will maximize the life of the tip cartridge. System comes complete with: power supply, desolder tool (DP-DSG2) and workstand kit (DP-WSK2). Tip cartridges sold separately.

Part No.	Model	Description	Price
407-125	SP440-11	Desoldering System	\$690.00



Choosing the Correct Desoldering Tip

Proper tip selection is important for getting the best results. Select a tip with an inside diameter (A) larger than the lead diameter, and an outside diameter (B) that is approximately the same size as the pad.



BOARD



CORRECT



TOO SMALL



TOO LARGE

Choosing the Correct Temperature (Series)

Tip cartridges for the SP440 are designed for high heat transfer, making desoldering on multi-layer boards much easier. Desolder tips are available in two temperature series (600 and 700). A typical board usually requires a **700 Series** tip. For thermally sensitive components or small single-sided boards use a **600 Series** tip.

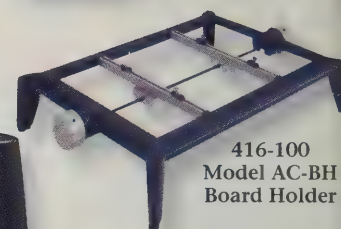
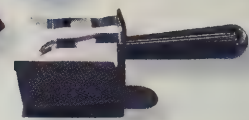
Desoldering Tip Cartridges for SP440					
Part No.	Style	Dimensions		Temperature Series	Price
		Inside (A)	Outside (B)		
407-126	SDC-602	.025	.055	600	\$30.85
407-127	SDC-702	.025	.055	700	\$30.85
407-128	SDC-603	.030	.060	600	\$30.85
407-129	SDC-703	.030	.060	700	\$30.85
407-130	SDC-604	.040	.070	600	\$30.85
407-131	SDC-704	.040	.070	700	\$30.85
407-132	SDC-605	.050	.080	600	\$30.85
407-133	SDC-705	.050	.080	700	\$30.85
407-134	SDC-606	.060	.090	600	\$30.85
407-135	SDC-706	.060	.090	700	\$30.85
407-136	SDC-607	.095	.125	600	\$30.85
407-137	SDC-707	.095	.125	700	\$30.85



**For a
Demo Call
1-800-225-5370**



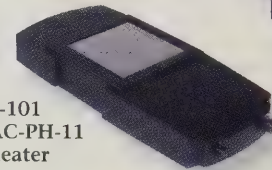
Work Tray and
Nozzle Removal Tool



416-100
Model AC-BH
Board Holder



412-803
Model QX2-SBP-11
Rework System with
Board Holder & Preheater



416-101
Model AC-PH-11
Preheater

QX2 Convection Rework System

**Set-up is Fast and Easy,
Requiring No Special Tools, Fixturing, or Testing**

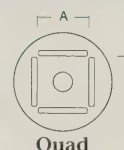
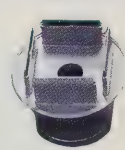
- Heats leads simultaneously, ensuring even reflow
- Self-contained vacuum
- Operator Control Interface: Start/Stop, Airflow Control, Time Control, Temperature Display, Attach/Remove Mode
- Component Removal: automatic lift-off and heater shutoff
- Component Attachment: manual, timer controlled

This system provides simplified controls and automation, reducing operator training requirements. To maintain greater process control, the heater exhaust temperature is held constant, and the temperature setpoint is low to minimize stress. To vary heat, simply adjust airflow. Focused convection nozzles direct heat exactly where it's needed. During the removal cycle, the vacuum pickup automatically lifts the component from the board when the solder reflows, and then shuts off the heat. The time used in the removal cycle is stored and displayed as a guide for establishing the minimum time to reattach a similar component. The **Remote Controller** provides the main interface between you and the QX2, and features: Start/Stop button, Airflow Control, Temperature Display, Attach and Remove Modes, and Time Control. The **Board Holder** is self-centering which accommodates and holds securely PCBs in a size range from 2" x 2" to 14" x 18". It also allows the use of the Preheater. The Preheater is a forced convection heater with a 6" x 6" heating surface, providing a 2°C/cm temperature gradient. It has four power settings to yield a board temperature range of 90-120°C. Three models available. **Model QX2-S-11 (412-899)** is just the Rework System. **Model QX2-SBH-11 (412-898)** is the Rework System plus the Board Holder. **Model QX2-SBP-11 (412-803)** is the Rework System plus the Board Holder and the Preheater. All models come complete with work tray and nozzle removal tool and operate at 90-132VAC, 50/60Hz. 1-year warranty.

Part No.	Model	Description	Price
412-899	QX2-S-11	Rework System Only	\$3,500.00
412-898	QX2-SBH-11	Rework System with Board Holder	\$3,800.00
412-803	QX2-SBP-11	Rework System with Board Holder & Preheater	\$4,750.00
416-100	AC-BH	Board Holder Only	\$600.00
416-101	AC-PH-11	Preheater Only	\$1,125.00
416-102	AC-BP-11	Board Holder & Preheater	\$1,500.00

Specifications for QX2

Input Voltage: 90-132VAC. 50/60 Hz Convection System: Heater 550W. Rated current 5A. Airflow 20-50 l/min. Source Temperature Default Setpoint 350°C, Range (programmable) 250-450°C. Preheater: Heater 950W. Rated current 8.5A. Heating surface 6"x 6". Resulting board temperature 90-120°C. Board Holder: Minimum board size 2" x 2". Maximum board size 14" x 18".



Quad

Dual

Focused Convection Nozzles for QX2

Focused convection nozzles, rather than box nozzles, direct hot air only at the leads, where it is required.

Part No.	Model	Style	SMD Component	Dimensions		Price
				A	B	
416-103	NZ-Q11	Quad	PLCC 20	.43"	.43"	\$118.00
416-104	NZ-Q13	Quad	PLCC 28	.51"	.51"	\$118.00
416-105	NZ-Q17	Quad	QFP 44	.66"	.66"	\$118.00
416-106	NZ-Q18	Quad	QFP 80	.70"	.70"	\$118.00
416-107	NZ-Q19	Quad	PLCC 44	.74"	.74"	\$118.00
416-108	NZ-Q22	Quad	PLCC 52	.86"	.86"	\$118.00
416-109	NZ-Q23	Quad	BQFP 100	.90"	.90"	\$118.00
416-110	NZ-Q27	Quad	PLCC 68	1.06"	1.06"	\$118.00
416-111	NZ-Q28	Quad	BQFP 132	1.10"	1.10"	\$118.00
416-112	NZ-Q32	Quad	PLCC 84, QFP 208	1.25"	1.25"	\$118.00
416-113	NZ-Q33	Quad	QFP 120/128/144/160	1.29"	1.29"	\$118.00
416-114	NZ-Q1925	Quad	QFP 100	.74"	.98"	\$118.00
416-115	NZ-D1113	Dual	SOL 20	.43"	.51"	\$118.00
416-116	NZ-D1116	Dual	SOL 28	.43"	.62"	\$118.00
416-117	NZ-D1420	Dual	TSOP 24-28/40-44	.55"	.78"	\$118.00
416-118	NZ-D2109	Dual	TSOP 28-32	.83"	.35"	\$118.00
416-119	NZ-D2113	Dual	TSOP 48	.83"	.51"	\$118.00



Resistance Soldering System

Generates Heat Instantly-only at Solder Connection

Resistance soldering method generates instant heat at the connection without damage to adjacent heat-sensitive materials. Heat is only produced when the electrodes in the tweezer-type handpieces are in

contact with the connection to be soldered. Three handpieces available. Choose the handpiece to best fit your application and the recommended power control unit.

Medium Tweezer- Style Handpiece

For use with connections up to 1/2" diameter including heavy gauge wire, terminals, lugs, and posts. Replaceable stainless steel electrodes are .125" in diameter and may be formed or bent to fit the job. Overall length is 7". Use with power control unit Part Numbers **111-701** or **111-700** (not included).

Part No.	Model	Description	Recommended Power Control Unit	Price
111-702	105127	Med. Handpiece	111-701 & 111-700	\$205.95
111-715	10594	Pkg. of 6 Replacement Electrodes	—	\$50.00

Micro Tweezer- Style Handpiece

For use with wire 22-gauge and finer. Replaceable stainless steel electrodes are .040" in diameter and may be bent or formed to fit the job. Overall length is 6-1/2". Must be used with power control unit Part Number **111-701** (not included).

Part No.	Model	Description	Recommended Power Control Unit	Price
409-501	105133	Micro Handpiece	111-701	\$139.30
113-091	105134	Pkg. of 6 Replacement Electrodes	—	\$9.65

Regular Tweezer- Style Handpiece

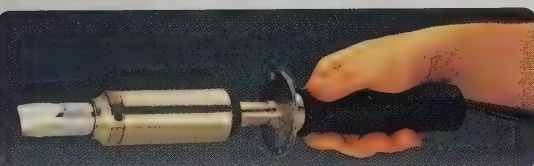
For use with medium gauge wire up to 3/8" diameter. Replaceable stainless steel electrodes are .078" in diameter and may be formed or bent to fit the job. Overall length is 5". Must be used with power control unit Part Number **111-701** (not included).

Part No.	Model	Description	Recommended Power Control Unit	Price
111-710	10541	Regular Handpiece	111-701	\$118.70
111-711	10542	Pkg. of 6 Replacement Electrodes	—	\$15.30

Power Control Units

Variable temperature control with stepless dialing delivers precise temperature settings. Two models to choose from. Model 105-A3 is 0-100 Watts. Model 105-A12 is 0-250 Watts. Units operate on 110VAC. Optional footswitch allows more accurate timing of soldering operations.

Part No.	Model	Description	Price
111-701	105-A3	Power Control 0-100 Watts	\$280.80
111-700	105-A12	Power Control 0-250 Watts	\$372.89
111-707	10519	Footswitch for Power Controls	\$50.45



High-Wattage Soldering Irons

Heavy-duty soldering irons for applications requiring maximum heat transfer. Applications include electrical, maintenance, copper sweating, telephone, aviation, military and antenna work. Plug-type tips insert deep into elements. Insulated rubberoid with heat shields. Operate on 100/120V with 3-wire cords. Irons come with iron-clad, nickel-plated tips. Models 3138-100, 3138-150, and 3158-200 (not shown) come with a diamond shaped pointed tip. Model 3178-300 (shown above) comes with a chisel point tip.

Part No.	Model	Watts	Tip Shank Diam.	O.A. Length	Price
111-759	3138-100	100	3/8"	12-7/8"	\$128.60
111-760	3138-150	150	3/8"	12-7/8"	\$128.60
111-762	3158-200	200	5/8"	13-5/8"	\$176.80
111-763	3178-300	300	7/8"	14-3/8"	\$227.20



Soldering Irons

These small lightweight irons have a long-life stainless steel heating element with heat-deflecting baffle. Molded handle stays cool and anti-roll design keeps iron from rolling off bench. Series 3110 irons are 6-1/2" long. Series 3112 irons are 7-1/2" long. Irons available from 25 to 60 watts. Operate on 100/120VAC. Tip not included with iron. Be sure to order tip with correct shank diameter. Irons take full range of plug-type tips shown on page 525.

Part No.	Model	Watts	Diameter	Price
111-753	3110-30	30	3/16"	\$60.85
111-754	3110-35	35	3/16"	\$60.85
111-755	3112-40	40	1/4"	\$67.50
111-756	3112-50	50	1/4"	\$67.50
111-757	3112-60	60	1/4"	\$68.50
113-142	481S Replacement Sponges - Set of 6	—	—	\$12.90

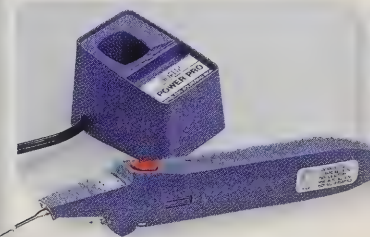


Adjustable Power Soldering Station

Two wire cordset

Adjustable power from 5 to 40 watts, enough variation to actually change the operating characteristics of the iron. Comes complete with lightweight iron and ST3 tip, power base, iron holder and sponge. Operates on 120 VAC, 50/60 Hz, has two wire cordset and is UL listed. Uses full selection of ST series tips shown on page 496.

Part No.	Model	Description	Price
131-185	WLC100	Hobbyist Soldering Station	\$58.60



ISO TIP

Power Pro High Capacity Cordless Soldering Iron

- Up to thirty minutes of soldering
- High-efficiency tips
- Tip performance to 900°F

Larger capacity battery provides up to 30 minutes of soldering time, and combined with new high-efficiency tips can solder over 200 joints. Minimizes recharging time for large field service jobs. New tip design requires less power and features improved conductivity to heat tip in approximately five seconds. Isolated tip eliminates component damage caused by electrical leakage. Iron completely recharges in 4 hours. Standard design Isotip® tips can be used for normal soldering applications. Comes complete with iron, two tips (7545-100 fine tip and 7577-100 chisel tip) and 115VAC recharging stand with charge status LED.

Part No.	Model	Description	Price
111-802	7904	Power Pro High Capacity Cordless Iron	\$74.45
112-400	7545-100	Fine, 1/16" High-Efficiency Tip	\$6.45
112-404	7566-100	Micro, 1/64" High-Efficiency Tip	\$5.45



Interchangeable with Hakko 900M Series Tips



Soldering tips for Hakko 926, 928, 936-9, 936-12 and 937 stations and 900M, 900MESD, 907, 907ESD soldering irons.

Part No.	Replaces Hakko No.	Plato Style.	Shape	Price
112-693	900M-T-1.6D	HS-2751	Chisel	\$4.60
112-694	900M-T-2.4D	HS-2752	Chisel	\$4.60
112-695	900M-T-3.2D	HS-2753	Chisel	\$4.60
112-700	900M-T-B	HS-4785	Conical	\$4.60
112-701	900M-T-LB	HS-4786	Conical	\$4.60
112-708	900M-T-1C	HS-5701	Spade	\$4.50
112-702	900M-T-I	HS-4787	Needle Point	\$4.60

Interchangeable with Weller PT-Series Tips

Soldering tips for Weller WTCPT, WTCPL, WTCPS, WTCPPZ, WTCPPN, TCP12, TCP1 and TC201P irons.

Part No.	Replaces Weller No.	Plato Style	Temp (°F)	Shape	Price
112-521	PTA7	C-3039-7	700	Screwdriver	\$4.05
112-522	PTA8	C-3039-8	800	Screwdriver	\$4.05
112-523	PTA9	C-3039-9	900	Screwdriver	\$4.05
112-524	PTB7	C-3040-7	700	Screwdriver	\$4.05
112-525	PTB8	C-3040-8	800	Screwdriver	\$4.05
112-526	PTB9	C-3040-9	900	Screwdriver	\$4.05
112-518	PTC7	C-3036-7	700	Screwdriver	\$4.05
112-520	PTC9	C-3036-9	900	Screwdriver	\$4.05
112-533	PTH7	C-3100-7	700	Screwdriver	\$4.05
112-534	PTH8	C-3100-8	800	Screwdriver	\$4.05
112-527	PTK7	C-3043-7	700	Long Screwdriver	\$4.05
112-528	PTK8	C-3043-8	800	Long Screwdriver	\$4.05
112-529	PTK9	C-3043-9	900	Long Screwdriver	\$4.05
112-531	PTL8	C-3044-8	800	Long Screwdriver	\$4.05
112-549	PTP7	C-462-7	700	Conical	\$4.05
112-550	PTP8	C-462-8	800	Conical	\$4.05
112-542	PTO7	C-4223-7	700	Long Conical	\$4.05
112-543	PTO7	C-4223-8	700	Long Conical	\$4.05
112-553	PTK8	C-494-7	800	Long Screwdriver	\$4.05
112-554	PTS8	C-494-8	800	Long Conical	\$4.05
112-555	PTS9	C-494-9	900	Long Conical	\$4.05
112-569	PTF8	C-593-8	800	Flat Conical	\$4.05
112-558	PTAA7	C-5139-7	700	Single Flat	\$4.05
112-559	PTAA8	C-5139-8	800	Single Flat	\$4.05

Desoldering Tips

Precision-made from the same materials, and using the same process described for the soldering tips above. Order by Contact East Part Number.

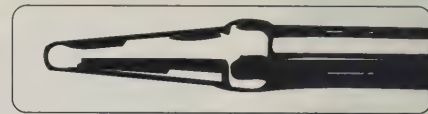


Interchangeable with Pace Desoldering Tips

Fit model SX-70 High-Capacity Sodr-X-Tractor only. 3/16" Shank.

Part No.	Replaces Pace No.	Plato Style	Dimensions (in.)		Price
			ID	OD	
113-810	1121-0367	30-030	.030	.065	\$8.87
113-811	1121-0342	30-040	.040	.085	\$8.87
113-812	—	30-050	.050	.095	\$8.87
113-813	1121-0368	30-060	.060	.115	\$8.87

Soldering Tips



Manufactured from high grade copper stock machined to precise size. First, the tips are iron plated to resist solder erosion, then nickel plated for maximum corrosion protection. Chromium plating is then applied to further immunize the unwetted surfaces of the tip. Finally, the tip is tinned to provide maximum wetting and efficient heat transfer.

Interchangeable with Hexacon J-series Tips



Soldering tips for Hexacon® Therm-O-Trac 1001, 1002 1002A and Select-O-Trac 1003A/B, 1006A/B soldering irons.

Part No.	Replaces Hexacon No.	Plato Style	Shape	Price
112-580	J102X	CH-3551	Screwdriver	\$6.70
112-575	J201X	CH-3487	Screwdriver	\$6.70
112-576	J202X	CH-3488	Screwdriver	\$6.70
112-587	J203X	CH-5286	Single Flat	\$6.70
112-588	J204X	CH-5287	Single Flat	\$6.70
112-577	J301X	CH-3489	Chisel	\$6.70
112-578	J302X	CH-3534	Chisel	\$6.70

Interchangeable with Weller ET-series tips

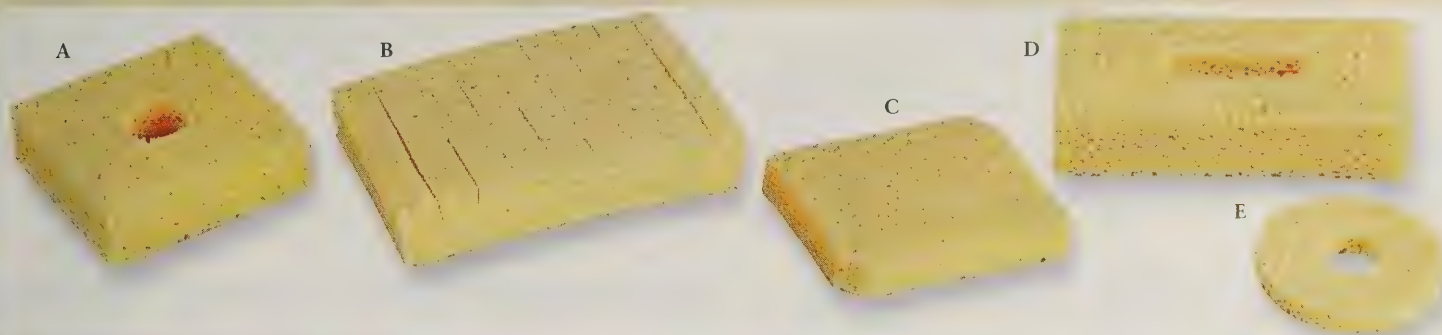
Fits EC1001, EC2001, EC10021, EC20021 stations and EC1201A and EC1201P soldering pencils.

Part No.	Replaces Weller No.	Plato Style	Shape	Price
112-675	ETB	EW-305	Screwdriver	\$4.00
112-677	ETC	EW-307	Screwdriver	\$4.00
112-671	ETH	EW-301	Screwdriver	\$4.00
112-672	ETJ	EW-302	Long Screwdriver	\$4.00
112-674	ETK	EW-304	Long Screwdriver	\$4.00
112-678	ETM	EW-308	Long Screwdriver	\$4.00
112-669	ETR	EW-101	Narrow Screwdriver	\$4.00
112-683	—	EW-4796	Needle Point	\$4.45
112-680	ETS	EW-402	Long Conical	\$4.00
112-682	ETO	EW-404	Long Conical	\$4.00
112-681	ETP	EW-403	Conical	\$4.00
112-685	ETAA	EW-513	Single Flat	\$4.45
112-688	ETDD	EW-519	Single Flat	\$4.45

Interchangeable with Pace Desoldering Tips

Fit Pace® Sodr-X-Tractors models SX-25, SX-25V and SX-20. 1/8" shank. Not for use with SX-70. Packages of 10.

Part No.	Replaces Pace No.	Plato Style	Dimensions (in.)		Price
			ID	OD	
113-777	1121-0213	20-0109	.025	.060	\$16.40
113-782	1121-0214	20-0114	.030	.060	\$16.40
113-778	1121-0215	20-0110	.040	.080	\$16.40
113-781	1121-0216	20-0113	.050	.090	\$16.40
113-779	1121-0217	20-0111	.060	.100	\$16.40
113-780	1121-0091	20-0112	.090	.125	\$16.40



Tip Cleaning Sponges

Replacement sponges fit: Weller®, Hakko®, Pace®, Plato®, Hexacon®, American Beauty® and Edsyn® and Metcal® soldering stations. Expand to 1". Price per pkg.

Part No.	Model	Fig.	Mfg. No.	Dim. (in.)	Qty/Pkg	Price
113-290	CS1	A	Pace 4021-0005	1.50 x 2.12	10	\$10.30
113-295	CS36	A	Hexacon 8141, 8141C	2.19 x 3.50	10	\$13.00
113-296	CS40	A	Edsyn RS199	3.19 x 3.44	10	\$10.50
113-298	CS44	A	Hakko 609-029	2.70 x 2.70	10	\$12.20
172-408	CS44M	A (Multi-Hole)	—	2.7 x 2.7	10	\$10.80
113-302	CS47	A	Metcal AC-YS3, STSS-YS3	8.5 x 172.1 x 3.2	10	\$10.95
113-292	CS11	B	Plato V-Series	2.00 x 2.63	10	\$11.70
113-294	CS33	B	Weller EC205	2.75 x 4.62	10	\$13.20
113-303	CS5	C	Am. Beauty 480S	2.63 x 3.20	4	\$4.20
113-297	CS43	D	Hakko 926-029B	1.75 x 4.00	10	\$12.20
113-304	CS7	E	Plato TW-Series	2.25 O.D.	7	\$3.36
151-030	CS17	Not Shown	Plato Sponge Sheet	8.5 x 17	1	\$16.16

Save on Soldering Tips

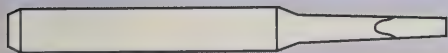
Save on soldering tips-tips you might otherwise throw away! Buffing them with this polishing bar will clean and restore tips to new life.



Part No.	Description	Price
113-262	Polishing Bar	\$10.50

Quality "Plug-Type" Tips for More Reliable Solder Joints

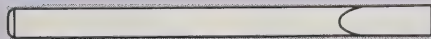
A high quality tip is critical for getting the maximum performance from your soldering iron. Top-quality Plato tips are plated with iron, nickel and chromium, then tinned for prolonged tip life and reliable solder joints. The following tips fit most brands of soldering irons that require a plug or shank type tip.



1/8" shank diam., 2-1/4" long

Fits Hexacon, American Beauty, Esico, Wall-Lenk, PACE and A.P.E. soldering irons.

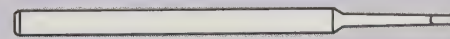
Part No.	Model	Width	Shape	Price
112-222	21-175	1/16"	Narrow Screwdriver	\$4.85
112-223	21-572	1/16"	Conical Bevel	\$4.85
112-228	22-320	1/16"	Screwdriver	\$4.85
112-226	22-142	1/8"	Screwdriver	\$4.85



3/16" shank diam., 2-1/4" long

Fits Hexacon, American Beauty, Esico and Wall-Lenk irons.

Part No.	Model	Width	Shape	Price
112-245	32-402	1/64"	Conical	\$6.35
112-252	33-415	1/32"	Conical	\$5.65
112-246	32-660	1/32"	Conical	\$5.65
112-238	31-150	1/16"	Chisel	\$5.65
112-244	32-338	1/16"	Screwdriver	\$5.75
112-243	32-306	3/32"	Screwdriver	\$5.75
112-242	32-168	1/8"	Screwdriver	\$5.75
112-247	33-131	3/16"	Screwdriver	\$6.35



1/4" shank diam., 2-1/4" long

Fits Hexacon and American Beauty soldering irons

Part No.	Model	Width	Shape	Price
112-272	42-628	1/32"	Conical	\$5.95
112-263	41-199	1/16"	Chisel	\$5.95
112-270	42-355	1/16"	Screwdriver	\$5.95
112-269	42-347	3/32"	Screwdriver	\$5.95
112-266	42-117	1/8"	Screwdriver	\$5.95
112-285	44-706	1/8"	Chisel	\$5.95
112-283	44-390	1/8"	Screwdriver	\$5.95
112-282	44-386	5/32"	Screwdriver	\$6.65
112-278	43-754	3/16"	Screwdriver	\$5.95
112-280	44-152	1/4"	Screwdriver	\$5.95



For an expanded selection of solder aids visit contacteast.com or jensentools.com



Weller

Princess Heat Gun

An ultra-light heat gun. High temperature of 850°F. Pistol-grip handle. Four baffle adapters. Neoprene 3-wire Hypalon cord. 250W. 13 oz.

Part No.	Description	Voltage	Price
118-208	Princess Heat Gun	115VAC	\$134.80
46-966	Princess Heat Gun	230VAC	\$176.50



Weller

Heat Gun

■ 790/1200°F

Dual temperature heat gun. Optional attachments available for special applications. 115VAC.

Part No.	Description	Price
118-094	Heat Gun	\$58.75
160-475	Reflector for Heat Shrink Tubing	\$8.75
174-189	Reducer for Concentrated Heat	\$8.75



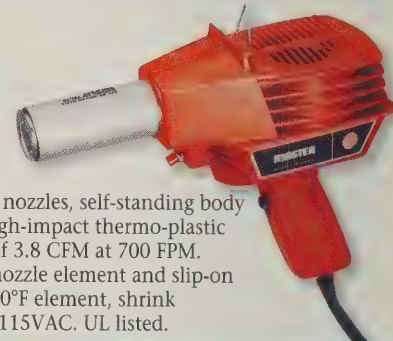
MASTER MITE

Lightweight Heat Gun

■ ESD version available

Interchangeable heating-element nozzles, self-standing body design, safety light, hanging loop, high-impact thermo-plastic case, thermal safety switch. Airflow of 3.8 CFM at 700 FPM. Non-ESD version comes with 650°F nozzle element and slip-on deflector. ESD version comes with 800°F element, shrink attachment and stand. 3-wire cord. 115VAC. UL listed.

Part No.	Description	Temperature	Wattage	Price
118-093	Heat Gun	650°F	—	\$88.60
420-608	ESD Heat Gun	800°F	—	\$128.00
118-131	Pin Point Adapter	—	—	\$14.65
118-130	Tubing Baffle	—	—	\$5.75
118-098	Replacement Element	500°F	325W	\$25.65
118-099	Replacement Element	650°F	475W	\$25.90
118-100	Replacement Element	800°F	525W	\$25.90



MASTER APPLIANCE

Heavy-Duty Flameless Heat Guns

Delivers temperatures up to 1000°F. Adjustable air intake; double-jacketed heater housing; die-cast aluminum body; and an 8' 3-wire cord. Rubber-backed base plate, 4-1/2 x 4-1/2". Delivers 19.8 CFM air volume at 2600 FPM velocity. UL listed.

Part No.	Model	Voltage	Temperature	Amps	Price
10-103	HG-301A	115V	300/500°F	12A	\$105.10
10-106	HG-501A	115V	500/750°F	14A	\$119.05
10-502	HG-502A	230V	500/750°F	7A	\$109.95
118-278	HG-751B	115V	750/1000°F	14.5A	\$119.05



MASTER APPLIANCE

PROHEAT® Variable-Temperature Heat Guns

General purpose heat guns deliver 15 cfm airflow and have a nozzle diameter of 1.3". Well balanced and lightweight, they are ergonomically designed with hanger loop and built-in hand guard. Two models to choose from: Model PH1100 has three-position switch and temperature settings of 750°F and 1050°F. Model PH1200 has control knob to vary temperature from room ambient to 1050°F. Both models operate on 120VAC, are UL listed with 3-wire cord and weigh only 26 oz.

Part No.	Model	Description	Price
118-293	PH1100	Proheat Dual Heat Gun	\$106.25
118-294	PH1200	Proheat Variable Heat Gun	\$172.40



Milwaukee

Variable-Temperature Heat Guns

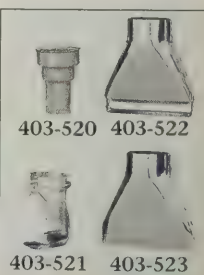
General purpose heat guns deliver 14.8 cfm airflow and have a nozzle diameter of 1.3". Double insulated with an impact resistant heating element make these heat guns ideal for industrial applications. Two models to choose from. **Model 8975-6** has three-position switch and temperature settings of 570°F and 1000°F. **Model 8977** has an end cap temperature control to adjust temperature from 212°F to 1000°F. Both models come complete with support stand, operate on 120VAC, are UL listed and weigh 1.6 lbs.

Part No.	Description	Price
403-518	Dual Temperature Heat Gun	\$89.30
403-519	Variable Temperature Heat Gun	\$127.75



Accessories

Part No.	Description	Price
403-520	Air Reduction Nozzle	\$11.20
403-521	Heat Shrink Attachment	\$11.20
403-522	Deflector	\$11.20
403-523	Air Spreader	\$11.20





SERVICE & INSTALLATION TOOLS

MASTER
APPLIANCE

Ultratorch UT-100

- 3-in-1 heat tool ■ Long lasting heat

Standard model includes flameless heat tip, torch tip, solder tip, heat shrink attachment, tip cleaner sponge and spanner wrench in a metal storage box. 120 minute run time.

Part No.	Description	Price
112-052	UT-100 Ultratorch 3-in-1 Model	\$119.35

Weller

Portasol® Self-Igniting Kit

**Melts Solder in Less
than 40 Seconds**

- ESD-Safe ■ 1 hour of continuous use
- Adjustable from 25 to 75 watts ■ Refills in less than 20 seconds

Lightweight compact cordless butane soldering and hot air tool offers the ultimate in portability. Features a piezo ignition with push-button for ease and convenience. Kit contains P2C soldering tool, PPT9 hot air tip, PPT10 hot knife tip, PPT11 hot air deflector for heat shrink tubing, PPT12 flame tip, sponge with tray, tool holder and operating instructions.

Part No.	Model	Description	Price
423-456	P2KC	Butane Kit	\$70.00

MASTER
APPLIANCE

Micropro™ Cordless Soldering Iron

Compact, lightweight and perfect for field service and repair. Powered by 3-AA alkaline batteries (included) providing 60-minutes continuous-duty runtime. Fast start-up, reaches 361°F in 10 seconds, max 932°F. Quick-change plug-in tips incorporate built-in heater. Includes 0.5mm conical tip, 1.5mm chisel tip, safety cap and tip change tool.

Part No.	Description	Price
10-030	Micropro Cordless Soldering Iron	\$99.95
10-031	Replacement Tip, 0.5mm, Conical	\$16.85
10-032	Replacement Tips, 1.5mm, Chisel	\$16.85
10-033	Replacement Tip, 1.8mm, Spade	\$16.85

Heat Shrinkable Tubing

Meets MIL-1-23053/5, AMS-3636 and AMS-3637. Hot air heat is preferred for shrinking process, however any heating device capable of delivering 250°F can be used. Contains thirty 6" length pieces in assorted diameters and colors.

Part No.	Description	Price
80-856	Heatshrink tubing 30 pc assorted	\$7.75

MASTER
APPLIANCE

Ultratorch UT-100Si

- Self-igniting

Push-button self-igniting butane powered tool is a dual function soldering iron and heat tool. Built in fuel filter for consistent fuel ignition. Adjustable temperature up to 1200°F. Comes complete with soldering tip, heat tip, spanner wrench, open end wrench, shrink attachment and protective cap. 120 minute run time. Overall length 10.3". UL listed.

Part No.	Description	Price
112-053	UT100Si Ultratorch Self-Igniting Model	\$114.55

MASTER
APPLIANCE

Ultratorch® UT-40Si

UT-40Si is an economical, industrial grade combination soldering iron and heat tool. Lightweight and rugged. Single slide, self-igniting, piezo-electric ignition. Adjustable temperature range equals that of a 30-80 watt soldering iron. Includes protective cap, soldering tip and a flameless heat tip. 75 minute run time. Overall length 8.3". UL listed.

Part No.	Description	Price
401-421	UT-40Si Ultratorch	\$62.40

Heat Shrink Tubing Kit

- 86 4" pieces in 6 sizes
- Meets Mil Standard 23053/5

Sizes and amounts included are (36) 3/16", (24) 1/4", (12) 3/8", (6) 1/2", (4) 3/4", and (4) 1". 1/2" expanded diameters when shrunk. Flame retardant with UL and CSA certification. Recommended shrinking heat is 120-250°C.

Part No.	Description	Price
426-135	Heat Shrink Kit, 86 pcs.	\$31.95

Heat Shrink Tubing Kit

375-piece assortment of four diameters: 1/16", 3/32", 1/8" and 3/16", in 1/2" and 3/4" lengths. Made of flexible irradiated polyolefin with a shrink temperature of 250°F. Comes in partitioned plastic box, 4-1/2" x 2-3/4" x 1".

Part No.	Description	Price
118-313	Heat Shrink Tubing Kit, 375 pcs.	\$20.25

SOLDER POTS & ACCESSORIES



ESICO Solder Pots

Efficient and rapid method for tinning and dip soldering. Cast-iron crucibles are thin-lipped for convenience and speed of operation. Models 20, 36T, 75T and 80T have an adjustable thermostat for selecting the optimum temperature. Models 75 and 75T are 650W, and Model 80T is 1200W. All other models are 250W. All pots come wired for 110/120V with a 3-wire cord.



Part No.	Model	Diameter	Depth	Temp. °F	Capacity	Price
112-099	20	2"	1-1/2"	1200°F	1-1/4 lbs.	\$255.90
112-104	36T	2-1/2"	1-3/4"	650°F	2-1/4 lbs.	\$184.45
112-102	36	2-1/2"	1-3/4"	750°F	2-1/4 lbs.	\$103.40
112-103	36C	2-1/2"	1-3/4"	900°F	2-1/4 lbs.	\$123.65
112-111	75T	4-3/4" sq.	1-3/4"	650°F	11-3/4 lbs.	\$238.40
112-110	75	4-3/4" sq.	1-3/4"	750°F	11-3/4 lbs.	\$155.05
112-114	80T	6" x 12"	1-7/8"	650°F	33 lbs.	\$611.60

PLATO

"Super-Safe" Solder Pots

Heat Shield Makes It Safe to Touch

■ Closely controlled temperatures

Designed with new safety features for greater operator protection and longer life. Exclusive heat shield surrounding solder pot makes all parts, except the crucible and dross tray, safe to the touch. Melting crucibles are 2-1/2" diam. and 1-1/2" deep and have a solder capacity of 2 lbs. Removable dross tray for easy cleaning and adjustable leveling feet. 3-wire, UL listed, 6-ft. cord with NEMA 5-15 connector and receptacle. Operates on 110V, 60 Hz, 350W. Models SP-101 and SP-301 feature an adjustable thermostat control.



Part No.	Model	Temp. Range	Watts	Price
112-128	SP-101	500-975°F ± 11°	350	\$255.00
112-129	SP-301	500-1100°F ± 11°	500	\$266.00

PLATO



Solder Pots

■ Exceeds Military Specs, ANSI-J-STD-001B

These specs require solder pots to maintain ±5°F of the preselected temperature and be grounded. Plato's SP500T and SP600T solder pots exceed the temperature-control requirements, are grounded, and features a solid state controller that limits transient voltage spiking to ≤2mV peak-to-peak for voltage-sensitive components. A preset switch allows you to select the desired temperature (with an accuracy of ±5°F), and an LCD display shows preset and operating temperatures. Model SP500T has a temperature range of ambient to 925°F. Model SP600T has a temperature range of ambient to 750°F. Both models have full metal construction for ESD protection, and feature an exclusive heat shield that makes all parts, except the crucible and dross tray, safe to the touch. Both solder pots have removable dross trays for easy cleaning, adjustable leveling feet, operate on 120VAC, and come with 3-wire UL-listed cord.



Model SP500T



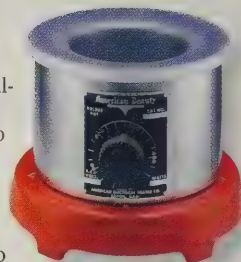
Model SP600T

Part No.	Model	Inside Dimension	Soldering Capacity	Watts	Price
112-134	SP500T	2.5" Diam x 1.5"	2.2 lbs.	350	\$885.00
112-135	SP600T	6" x 4" x 4"	32.0 lbs.	1000	\$1,938.83

Assembly Technologies

Solder Pots

Feature direct-reading dial-type thermostat that adjusts from 325°F to 750°F. Heats to 750°F in 25 minutes. Insulated cast-iron crucible with wrap-around steel case and cast-iron flared base for stability and ventilation. Two models to choose from. Both have 1-1/2" crucible depth. Comes with dross skimmer. Operates on 110/120VAC with 3-wire cord.



Part No.	Model	Inside Diam.	Solder Capacity	Watts	Price
112-100	300-S3	2-1/4"	1 lbs.	300	\$312.00
112-108	600-S3	3-1/2"	2-1/2 lbs.	600	\$353.60

Assembly Technologies

Solder Pot

■ Complies with MIL spec 2001

Features a direct-reading dial type control box that regulates temperature from 400°F to 800°F with a tolerance of ±5°F. Insulated cast iron crucible has wrap around stainless steel case and cast iron base for stability. Comes complete with dross skimmer. Operates on 110/120VAC with a 3-wire cord.



Part No.	Model	Inside Diam.	Solder Capacity	Watts	Price
173-773	675	3-5/16"	2-3/4 lbs.	650	\$822.65

Wattage Controller for Soldering Irons and Pots

Provides manual dial control of soldering iron tip temperature, solder pot temperature, and any other 120VAC heater load to 840 watts. Features automatic correction for voltage fluctuations. Fused, and has pilot light to indicate cycling.



Part No.	Description	Price
113-328	Wattage Controller	\$93.10



Epoxy Kits

Epoxy kit is designed for use on circuit boards to repair minor board surface damage, to replace solder mask, to overcoat circuits material to repair delamination. Epoxy kit includes 10 premeasured packages of epoxy, 10 mixing sticks, 10 mixing cups, and 10 foam swabs.



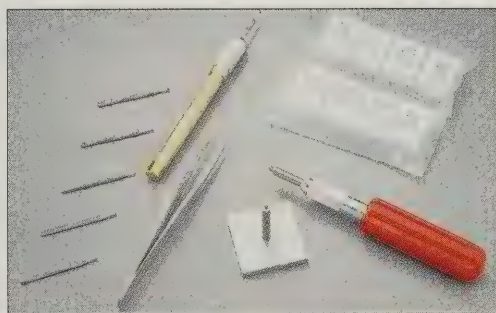
Part No.	Model	Description	Price
416-794	115-1322	EK-10 Epoxy Kit	\$69.00

Epoxy Specifications

Packaging:	2 gram packages
Color:	Clear, transparent
Pot Life:	30 minutes
Cure Cycle:	24 hours at room temp. or 1 hour @ 165°F (74°C)
Viscosity, Mixed:	1900 cps @ 77°F (25°C)
Operating Temp.:	76°F - 284°F (-60°C - 140°C)
Hardness:	88 Shore D
Dielectric Strength:	410 volts/mil

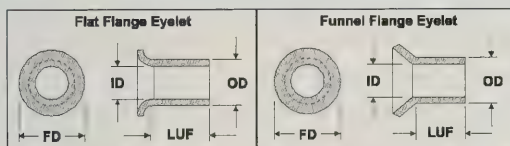
Plated Hole Repair Kit

Kit includes 8 different eyelet sizes and hand tools for quick repair of damaged plated holes in PC boards. Packaged in a conductive carrying case.



Part No.	Model	Description	Price
418-014	201-3140	Plated Hole Repair Kit	\$199.00

Replacement Eyelets



Eyelets listed below are pure copper, electroplated with tin or solder. Come 100 per package.

Part No.	ID mm	OD mm	LUF	FD	PC Board Thickness	Price
417-044	.020	.030	.094	.059	.055-.065	\$29.50
417-045	.020	.030	.120	.046	.085-.095	\$29.50
417-046	.030	.040	.093	.060	.055-.065	\$29.50
417-047	.033	.047	.093	.080	.055-.065	\$29.50
417-048	.033	.047	.125	.080	.085-.095	\$29.50
417-049	.035	.047	.062	.080	.025-.035	\$29.50
417-050	.036	.046	.093	.076	.055-.065	\$29.50
417-051	.045	.059	.062	.090	.025-.035	\$29.50
417-052	.045	.059	.093	.090	.055-.065	\$29.50
417-053	.045	.059	.125	.090	.085-.095	\$29.50
417-054	.035	.047	.118	.080	.085-.095	\$29.50
417-055	.043	.059	.156	.095	.120-.130	\$29.50
417-109	.055	.069	.091	.110	.055-.065	\$29.50
417-058	.064	.076	.091	.115	.055-.065	\$29.50
417-059	.073	.089	.093	.125	.055-.065	\$29.50

Circuit Technology Circuit Frames

Replace damaged circuits without the mess of liquid epoxy, with a bond strength equal to the original, on bare or loaded PC boards — all in about 30 seconds. Replacement circuit frames with dry-film epoxy backing make this delicate, precise process quick and neat. Trim out the circuit you need and bond it to the PC board surface.

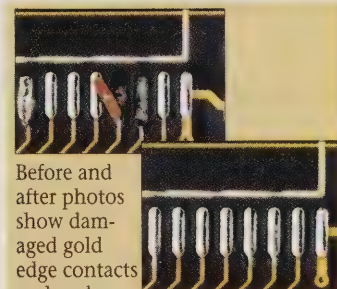
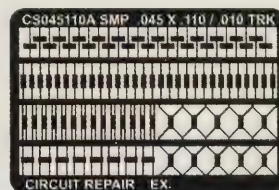
Circuit Frames Material Specifications

Overall Size:	2.25" x 1.50"
Base Material:	Rolled annealed copper foil .0014" thick
Adhesive Backing:	Thermoset Phenolic Butral film .0018" thick.
Bonding Temperature:	500°F ± 25°F
Bonding Time:	30 seconds
Peel Strength:	Minimum 8 lbs./inch after cure to FR-4 laminate.
Shelf Life:	6 months minimum.

Surface Mount Pad Frames

Frames plated with .001" of 60/40 tin/lead.

Part No.	Model	Size	Price
417-015	CS004085AT	.004" x .085"	\$35.00
417-016	CS012060AT	.012" x .060"	\$35.00
417-017	CS012100AT	.012" x .100"	\$35.00
417-018	CS025080AT	.025" x .080"	\$35.00
417-019	CS030055AT	.035" x .055"	\$35.00
417-020	CS034030AT	.034" x .030"	\$35.00
417-021	CS039039AT	.039" x .039"	\$35.00
417-022	CS040070AT	.040" x .070"	\$35.00
416-799	CS045110AT	.045" x .110"	\$35.00
417-023	CS048068AT	.048" x .068"	\$35.00
417-024	CS050050AT	.050" x .050"	\$35.00
417-025	CS060080AT	.060" x .080"	\$35.00
417-026	CS065055AT	.065" x .055"	\$35.00
417-027	CS065095AT	.065" x .095"	\$35.00
417-028	CS095095AT	.095" x .095"	\$35.00
417-029	CS130177AT	.130" x .177"	\$35.00



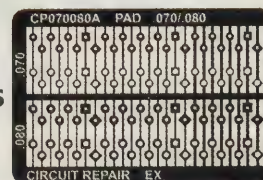
Before and after photos show damaged gold edge contacts replaced using the dry film bonding process. The new contacts come plated with nickel & gold.



Before and after photos show damage of plated through holes repaired using tracks, eyelets and setting tools.

Plated Thru Hole Repair Pads

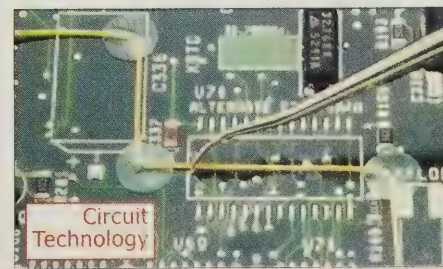
Frames are plated with .001" of 60/40 tin lead.



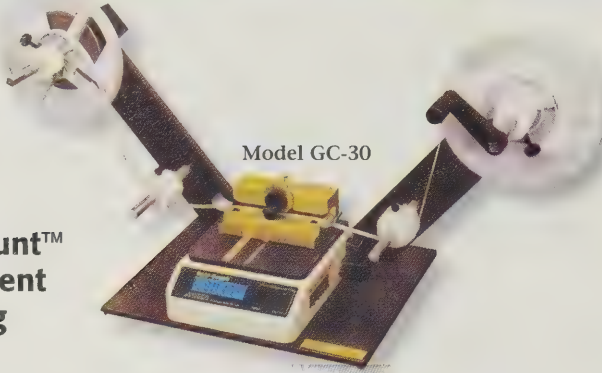
Part No.	Model	Size	Price
417-030	CP050060AT	.050"/.060"	\$35.00
416-798	CP070080AT	.070"/.080"	\$35.00
417-032	CP090100AT	.090"/.100"	\$35.00
417-033	CP140210AT	.140"ID x .210"OD	\$35.00
417-034	CP156097AT	.097"ID x .156"OD	\$35.00

Tape Dots

No more hot glue, or super glue mess. Hold wires permanently with tape dots. Just peel and stick for a quick, neat job. Withstands solvents and aqueous wash. 450/pkg.



Part No.	Model	Description	Price
428-994	310-0652	Tape Dots	\$40.00



Gold Count™ Component Counting Systems

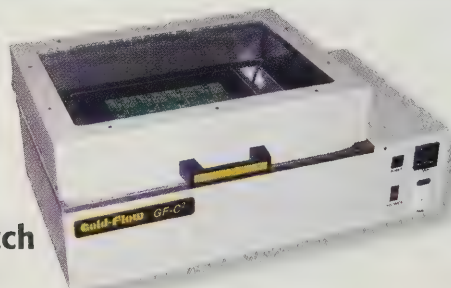
For any Type of Taped Device – Axial, Radial or SMD

- Forward/reverse function makes counting foolproof
- Divide-by feature permits exact count of virtually all types and sizes of components
- Non-contact photoelectric infrared smart sensor
- Push-button marks axial and radial components tapes

Two models of counters to choose from, either the standard Model GC-11 or the deluxe Model GC-30.

Part No.	Model	Description	Price
409-631	GC-11	Counting System	\$1,830.00
409-632	GC-30	Deluxe Counting System	\$2,445.00

Counting System Specifications		
	Model GC-11	Model GC-30
LCD Display	4 digit	5 Digit
Presetttable Count	No	Yes
Reel Stand Maximum	Standard	Deluxe
Reel Diameter Maximum	16 inches	16 inches
Tape Width	4 inches	4 inches
Size	25" x 11" x 12"	25" x 11" x 12"
Weight	13.7 lbs.	13.7 lbs.
Power	115 VAC	115 VAC & battery operation with integral charger



Gold-Flow™ Dual Function Batch Oven or Hot Plate

For Preheat, Rework, Curing and Reflow

- Use as a batch oven or hot plate
- Large heating area, 13" x 13"
- Heavy-duty construction
- Large viewing window
- Stainless steel interior

Conduction/convection oven has a unique dual function use, both as a hot plate and as a forced air convection oven. Unit is ideal for batch SMT reflow, curing and hot plate applications. Hot plate is made of a 3/4" thick aluminum with abrasion resistant Teflon® coating for precise, even heating. Combination forced air convection/conduction heating allows for consistent process control. A digital controller precisely and automatically regulates temperatures from 100°F to 500°F (37°C to 260°C). Unit comes complete with a nitrogen gas inerting option. Operates on 110VAC, 50/60Hz. Dimensions are 26.25" L x 16.5" W x 12" H and weighs 48 lbs.

Part No.	Model	Description	Price
419-185	GF-C2	Batch Oven/Hot Plate	\$3,495.00

Gold Wave™ Soldering System

**Ideal for Rework as well as
Selective Soldering Applications**

- Solder bath temperature is adjustable from 392 to 662°F ±5°F.
- Overhead laser light pinpoints the center of the component over the wave
- Large selection of wave nozzles is available

Benchtop wave soldering machine can be used for the removal and replacement of through hole components, connectors, etc. mounted on PC boards. Machine draws dross-free solder from the bottom of the bath to assure contaminant free connections. Convenient foot switch activation allows for hands free operation. The microprocessor based digital controller precisely and automatically regulates the following process parameters: solder bath temperature to ±5°F, solder flow wave height, and solder flow cycle time. Machine has a solder capacity of 50 pounds, operates on 120 VAC, 60 Hz. 10 A., and comes with a 3-wire cord and foot switch. Size is 26"D x 16"W x 17"H. Warm-up time is 45 minutes and the weight of the unit is 30 pounds. Unit comes with a 14-20 pin DIP wave nozzle (Model WN-10).

Part No.	Model	Description	Price
409-630	GW-10	Gold Wave Soldering System	\$3,995.00

Optional Wave Nozzles

Part No.	Model	Application	I.D.	Price
409-633	WN-10	14-20 pin DIP	1.00" x 0.50"	\$204.00
409-634	WN-20	24-28 pin Dip	1.50" x 0.75"	\$204.00
409-635	WN-30	30-48 pin Dip	2.50" x 0.75"	\$204.00
409-636	WN-40	PGA	1.00" x 1.00"	\$204.00
409-637	WN-50	PGA	1.50" x 1.50"	\$204.00
409-638	WN-60	PGA	2.00" x 2.00"	\$204.00
409-639	WN-70	Flat Connectors	2.75" x 0.35"	\$204.00
409-640	WN-80	Large Connectors	4.00" x 0.75"	\$204.00

Gold-Flow™ Single and Dual Function Hot Plates

**Large Heating Area is
Ideal for Preheat, Rework
and Reflow**

- Two models available — single plate or dual plate
- Large heating area, 13" x 13"

Hot plates feature 3/4" thick aluminum surfaces with an abrasion resistant Teflon® coating for precise even heating. Microprocessor-based digital controller precisely and automatically regulates temperature with a range of 100°F to 500°F (37°C to 260°C). Compact units are fully insulated for safe operator use. Two models to choose from. Model GF-SL has a single heating area of 13" x 13" with 1400 watts of power. Model GF-DL has a dual heating area of 13" x 6.4" (x2) with 700 watts of power (each plate). Dual function hot plate features independent control monitoring of both plates. Both models have dimensions of 18.75" x 14" x 4", weigh 28 lbs and operate on 110VAC, 50/60Hz.

Part No.	Model	Description	Price
419-182	GF-SL	Single Function Hot Plate	\$1,015.00
419-183	GF-DL	Dual Function Hot Plate	\$1,525.00



Gold-Flow™

Inline Benchtop SMT Reflow Ovens

- Forced air convection and IR oven
- 12" wide conveyor
- 24" long heated tunnel
- Computer controlled
- 100 menu profile storage
- 7 day programmable timer
- Real-time graphic temperature profiler

Reflow ovens have an easy-lift clamshell design, stainless steel conveyors and chambers, and viewing windows with lighted interior. Their heating profiles are superior to batch and other ovens for several reasons. Each heating zone is programmable through the controller which stores up to 100 profiles. The ovens include a real-time temperature profiler port. When a thermocouple is attached to the PC board, the actual reflow temperature profile is displayed graphically as the board travels through the oven. The conveyor speed, heating elements, cyclonic generators and cooling fans are all programmable. Ovens also feature SPC fault monitoring and reporting, battery backup, and a 7-day timer for automatic machine start-up. Two models to choose from. **Model GF12** with both convection heaters and IR heaters features 3 top and 2 bottom heating zones (1 cyclonic). **Model GF12AC** total convection oven features 3 top and 3 bottom heating zones (3 cyclonics). Both models measure 36.75" long x 26.25" deep x 15" high, weigh 165 lbs. and operate at 220VAC 50/60Hz, single phase, 25 amps.

Part No.	Model	Heating Zones	Cyclonics	Price
403-903	GF 12	3 top, 2 bottom	1	\$8,155.00
407-873	GF12AC	3 top, 3 bottom	3	\$9,175.00

Model GF12AC



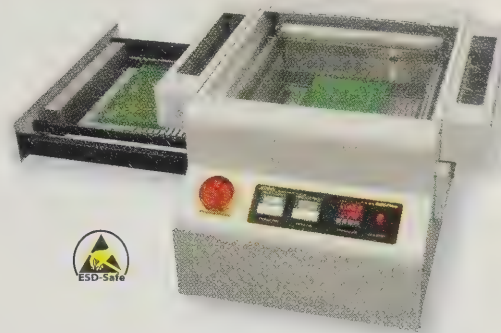
Full Convection Batch Oven

Ideal for Batch SMT Reflow and Curing Applications

- 100% forced air convection
- Full convection reflow area 12" x 12"
- Handles PCB's up to 12" x 12"
- Full stainless steel interior
- Large glass window (12" x 12")
- Fully grounded and ESD Safe
- Front panel programming of both preheat/activation time and cycle time indicated on LCD displays
- Front panel oven temperature programming/display
- Dual cooling stations

Designed for low volume production and lab environments, where precise and accurate heating is required. The unit has several unique features to provide you with every possible aid. The built-in computer uses closed loop monitoring to ensure absolute repeatability of temperature profiles. The precise timing control of preheat/activation stages and total reflow cycle time allows boards of varying mass to be easily profiled. The unique shuttle system enables higher throughput than standard batch ovens; alternate right to left shuttling allows a circuit board to be placed for staging while a second board is being processed. Two models to choose from. **Model GF-B** as described above. **Model GF-BN** with Nitrogen input.

Part No.	Model	Description	Price
409-628	GF-B	Batch Reflow Oven	\$5,095.00
409-629	GF-BN	Batch Reflow Oven w/ Nitrogen Input	\$6,115.00



Model GF-B

GF Series Specifications

Convection Heaters:	3 bottom heaters (0.9 kW) with dual Cyclonic™ fans
Reflow Area:	12" x 12"
Max. PCB size:	12" x 12"
Max PCB height:	1.25"
Power:	220 VAC, 50/60 Hz, 1Phase, 2.7 kW; current draw 20 A.
Dimensions:	52" L (to allow for shuttle) x 28.13" D x 14.5" H
Weight:	102 pounds



AirBath Preheating Systems

Ideal for Prototype, Low Volume Production and Rework/Repair Applications

- Pre-heating mode
- Post-cooling mode
- Red and blue lights indicate warm and cool modes
- All models are ESD-Safe

AirBath preheating systems provide thermal ramping, thermal profiling, preheating, and post-cooling to the electronic benchtop. All systems have variable temperature control and an internal self-contained air supply (units do not require compressed air). They feature a pyramidal, sloped design which allows for preheating of high density PCB assemblies where components are populated on both the top and bottom of the substrate. The sloped surface design provides ample clearance for high profile components such as connectors, capacitors, etc. AirBath systems allow you to significantly lower reflow temperatures. This helps prevent thermal shock to components, burning or warping of substrates, IC/semiconductor degradation and lifting of pads. The post-cooling feature keeps equipment cool even after hours of use. For applications of thru-hole, surface mount, ball grid array (BGA) and chip scale package technologies (CSP) these systems help bring production quality thermal profiles to the bench. Four models to choose from with analog or digital control. Operate on 110/120VAC and come complete with instruction manual.

AirBath with 24 CFM Air Volume and Analog Control

Ideal for Larger PCB Assemblies with High Copper Content, Heavy Ground Planes, Multi-Layers and Heat Sinks

- 24 cfm Air Volume
- 2 pre-heat settings: 100°C/212°F and 150°C/302°F
- Closed loop temperature control
- ESD wrist strap receptacle

Part No.	Model	Description	Price
412-820	ZT-1-HIS-MIL	AirBath with Analog Control	\$999.99

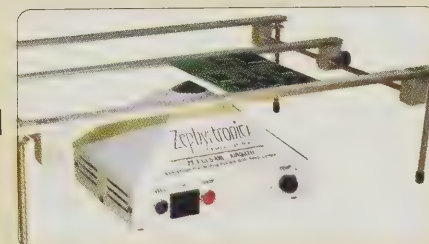


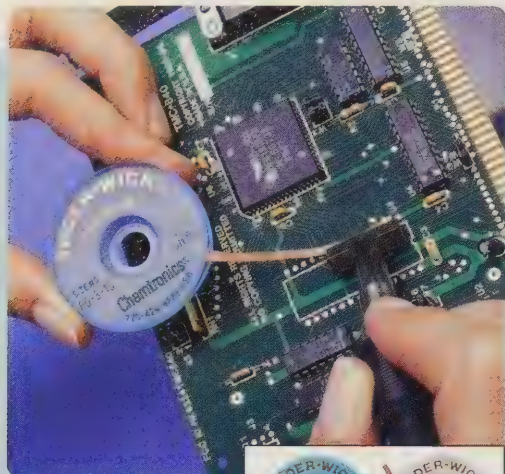
AirBath with 7.6 CFM Air Volume and Analog Control

Ideal for Small to Mid-Size PCB Assemblies

- 7.6 cfm air volume
- Variable temperature up to 190°C/374°F
- Analog temperature dial

Part No.	Model	Description	Price
417-492	ZT-1-CLS-MIL	AirBath with Analog Control	\$299.99





SODER-WICK® Rosin Desoldering Braid

This extra finely braided, pure copper wicking braid absorbs molten solder. Wick is coated with non-activated, white rosin flux (meets MIL-F-14256E & F, type R) that leaves no corrosive residues. Comes packaged with choice of standard or static-dissipative spools. Spools protect against electrostatic damage per DOD-STD-1686, DOD-HDBK-263 and MIL B-81705C.



Standard Spool

Part No.	Model	Braid Dimensions Width	Length	Price *
113-893	50-1-25	.030"	25'	\$11.20
113-899	50-2-25	.060"	25'	\$11.20
113-898	50-2-100	.060"	100'	\$43.30
113-905	50-3-25	.080"	25'	\$11.50
113-904	50-3-100	.080"	100'	\$45.10
113-911	50-4-25	.110"	25'	\$12.70
113-910	50-4-100	.110"	100'	\$49.80
113-917	50-5-25	.145"	25'	\$14.20

* Volume discounts available on quantities greater than 24 pieces

Static Dissipative Spool

Part No.	Model	Braid Dimensions Width	Length	Price *
114-021	80-1-5	.030"	5'	\$2.60
114-020	80-1-10	.030"	10'	\$4.50
114-023	80-2-5	.060"	5'	\$2.60
114-022	80-2-10	.060"	10'	\$4.50
114-025	80-3-5	.080"	5'	\$2.80
114-024	80-3-10	.080"	10'	\$4.80
114-027	80-4-5	.110"	5'	\$3.00
114-026	80-4-10	.110"	10'	\$5.30
114-029	80-5-5	.145"	5'	\$3.30
114-028	80-5-10	.145"	10'	\$5.90
114-030	80-6-5	.210"	5'	\$3.50

* Volume discounts available on quantities greater than 24 pieces



SODER-WICK®

BGA Desoldering Braid

- No-clean or rosin fluxed
- Entire BGA pad cleaned in seconds

Ultra pure copper braid absorbs molten solder. Extra wide wick (.210") is ideal for BGA pads. Available in two flux types. The rosin flux wick is coated with a non-activated white rosin flux that leaves no corrosive residues. The No-clean wick features a halide-free rosin based flux that can be safely left on the PC board. Desoldering braids are 5 ft. long, and come packaged on a static dissipative spool.

Part No.	Model	Description	Price
405-042	80-BGA-5	Rosin Fluxed Wick	\$4.00
405-043	60-BGA-5	No-Clean Wick	\$4.40



SODER-WICK®

Unfluxed Desoldering Braid

- For water soluble processes

This braid is ideal for use with any soldering process, including water soluble. By dipping unfluxed braid in liquid flux prior to desoldering, users of water soluble fluxes can maintain the same process through the rework stages. Comes packaged on static dissipative spools, 10 ft. long.

Part No.	Model	Width	Price
114-008	75-2-10	.060"	\$4.00
409-626	75-3-10	.080"	\$4.20
114-009	75-4-10	.110"	\$4.70



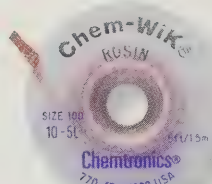
SODER-WICK® No Clean Desoldering Braid

- Leaves no residue
- 20% faster wicking than other braids
- Meets DOD Handbook 263, DOD Standard 1686, MIL-B-81705C & MIL-14256E, F

Features non-corrosive, halide free rosin based flux. Leaves no visible residue and can safely be left on PC boards after desoldering, eliminating solvent cleaning. Ultra-pure copper wire and open weave design results in faster heat transfer with less chance of damage to sensitive components. Packaged on static dissipative spool.

Part No.	Model	Braid Dimensions Width	Length	Price *
113-930	60-1-5	.030"	5'	\$2.80
113-929	60-1-10	.030"	10'	\$5.00
113-932	60-2-5	.060"	5'	\$2.80
113-931	60-2-10	.060"	10'	\$5.00
113-934	60-3-5	.080"	5'	\$2.90
113-933	60-3-10	.080"	10'	\$5.30
113-936	60-4-5	.110"	5'	\$3.30
113-935	60-4-10	.110"	10'	\$5.90
113-938	60-5-5	.145"	5'	\$3.60
113-937	60-5-10	.145"	10'	\$6.50

* Volume discounts available on quantities greater than 24 pieces



Chem-Wik® Rosin Desoldering Braid

- Meets DOD-STD-1686, DOD-HDBK-263 & MIL-B-81705C

Advanced ultra-thin desoldering wick has lighter mass, pure copper braid construction and allows for better thermal conductivity, even at low temperatures. Effectively removes all solder globs, icicles, bridges, and excess solder from terminals, plated through holes (double sided or multilayered boards), SMD and through hole components. Braid is coated with pure white rosin flux in accordance with MIL-F-14256E & F (type R) preventing oxidation and promoting solderability. Available in standard spool.

Part No.	Model	Braid Dimensions Width	Length	Price *
113-772	2-25L	.030"	25'	\$9.80
113-774	2-50L	.030"	50'	\$19.40
113-769	2-100L	.030"	100'	\$39.00
113-886	5-25L	.050"	25'	\$9.80
113-888	5-50L	.050"	50'	\$19.40
113-883	5-100L	.050"	100'	\$39.00
113-983	7-25L	.075"	25'	\$10.20
113-985	7-50L	.075"	50'	\$20.20
113-980	7-100L	.075"	100'	\$40.50
113-658	10-25L	.100"	25'	\$10.90
113-660	10-50L	.100"	50'	\$21.80
113-655	10-100L	.100"	100'	\$43.40

* Volume discounts available on quantities greater than 24 pieces



For an expanded selection
of desoldering tools
visit contacteast.com or
jensentools.com



Standard Spool



Static Dissipative Spool

No-Clean Desoldering Braid

- Prevents dendrite growth
- Approved for lead-free processes

Removes more solder than the conventional wick. The residue left behind is halide free and non-conductive, and can safely be left on PC boards eliminating solvent cleaning. Available in standard or static-dissipative spools.

Standard Spool

Part No.	Model	Braid Dimensions		Price
		Width	Length	
413-420	1814-5F	.035"	5'	\$2.60
173-756	1814-10F	.035"	10'	\$4.65
412-871	1814-50F	.035"	50'	\$19.80
403-354	1815-5F	.055"	5'	\$2.60
172-820	1815-10F	.055"	10'	\$4.65
413-431	1815-50F	.055"	50'	\$19.80
403-355	1816-5F	.075"	5'	\$2.70
161-184	1816-10F	.075"	10'	\$4.70
412-872	1816-50F	.075"	50'	\$19.80
403-356	1817-5F	.098"	5'	\$2.75
172-818	1817-10F	.098"	10'	\$5.10

Static Dissipative Spool

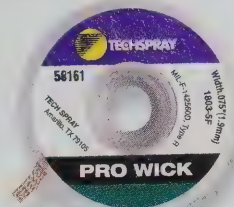
Part No.	Model	Braid Dimensions		Price
		Width	Length	
411-876	1827-5F	.025"	5'	\$4.20
413-422	1827-10F	.025"	10'	\$7.25
172-838	1820-5F	.035"	5'	\$2.70
160-155	1820-10F	.035"	10'	\$4.85
413-435	1820-50F	.035"	50'	\$20.50
403-357	1821-5F	.055"	5'	\$2.75
160-156	1821-10F	.055"	10'	\$4.85
413-436	1821-50F	.055"	50'	\$20.50
403-358	1822-5F	.075"	5'	\$2.90
160-160	1822-10F	.075"	10'	\$4.25
413-437	1822-50F	.075"	50'	\$20.50
403-359	1823-5F	.098"	5'	\$3.15
160-164	1823-10F	.098"	10'	\$5.20
411-877	1825-5F	.193"	5'	\$4.30



Unfluxed Desoldering Braid

- ESD-Safe spool

This braid is ideal for use with any soldering process, including water soluble. Packaged on static-dissipative spools.



Standard Spool



Static Dissipative Spool

Pro Wick® Rosin Desoldering Braid

- Meets MIL-F-14256F Type R, NASA Specification NHB5300.4, NPC200-4 and SP-5002

Ultra-pure copper braid weave works instantly to pull in and trap excess solder. 100% copper wick is coated with rosin type R flux that cleans connections during desoldering to ensure maximum solderability, and leaves no corrosive residues. Available in standard or static-dissipative spools.

Standard Spool

Part No.	Model	Braid Dimensions		Price
		Width	Length	
172-837	1801-5F	.035"	5'	\$2.05
172-823	1801-10F	.035"	10'	\$3.70
412-965	1801-25F	.035"	25'	\$8.30
172-842	1802-5F	.055"	5'	\$2.05
172-831	1802-10F	.055"	10'	\$3.70
412-966	1802-25F	.055"	25'	\$8.30
172-839	1803-5F	.075"	5'	\$2.15
172-819	1803-10F	.075"	10'	\$3.80
182-195	1803-25F	.075"	25'	\$8.25

Static Dissipative Spool

Part No.	Model	Braid Dimensions		Price
		Width	Length	
413-415	1826-5F	.025"	5'	\$3.80
413-416	1826-10F	.025"	10'	\$6.55
413-417	1808-5F	.035"	5'	\$2.15
172-834	1808-10F	.035"	10'	\$3.80
413-424	1808-25F	.035"	25'	\$8.60
413-418	1809-5F	.055"	5'	\$2.15
412-611	1809-10F	.055"	10'	\$3.90
413-426	1809-25F	.055"	25'	\$8.60
413-419	1810-5F	.075"	5'	\$2.35
412-610	1810-10F	.075"	10'	\$4.00
413-427	1810-25F	.075"	25'	\$8.60
413-430	1828-5F	.193"	5'	\$3.60

Part No.	Model	Braid Dimensions		Price
		Width	Length	
416-180	1830-5F	.035"	5'	\$2.05
416-179	1830-10F	.035"	10'	\$3.60
416-182	1831-5F	.055"	5'	\$2.05
416-181	1831-10F	.055"	10'	\$3.60
416-184	1832-5F	.075"	5'	\$2.25
416-183	1832-10F	.075"	10'	\$3.80
416-186	1833-5F	.098"	5'	\$2.60
416-185	1833-10F	.098"	10'	\$4.10
416-188	1834-5F	.130"	5'	\$2.75
416-187	1834-10F	.130"	10'	\$4.60
416-189	1835-5F	.193"	5'	\$2.96



Desoldering Braid

Fast Action Minimizes Heat Damage

Solder wick is made of pure, ultra fine, oxide-free copper. Its closed weave design maximizes thermal conduction and absorbs solder rapidly. This means shorter desoldering time, thus limiting the risk of thermal damage. Fast-acting desoldering braid absorbs up to 30% more solder is excellent for removing excess solder, solder globs, "bridges", "icicles", etc.

Unfluxed Desoldering Braid

- ESD-Safe Spool
- Meets MIL-STD 2000 and DOD-STD 1686

Can be used in conjunction with any flux to fit your process.



Part No.	Braid Dimensions		Price
	Width	Length	
410-124	.025"	10'	\$3.20
410-125	.050"	10'	\$3.20
410-126	.075"	10'	\$3.20
410-127	.100"	10'	\$3.50

Volume discounts available on quantities greater than 25 pieces

No Clean Desoldering Braid

- ESD-Safe Spool
- Meets MIL-STD 2000 and DOD-STD 1686

To be used in conjunction with RMA type no-clean fluxes. Conforms to ANSI/J-STD-004. Type LO. High SIR conforming to Bellcore specifications.



Part No.	Braid Dimensions		Price
	Width	Length	
410-117	.025"	10'	\$3.40
410-119	.050"	10'	\$3.40
410-121	.075"	10'	\$3.50
191-146	.100"	10'	\$3.90

Volume discounts available on quantities greater than 25 pieces

Rosin Desoldering Braid

- ESD-Safe Spool
- Meets MIL-STD 2000 and DOD-STD 1686

Uses pure type "R" rosin flux conforming to MIL-F-14256, Type R and ANSI/J-STD-004.



Part No.	Braid Dimensions		Price
	Width	Length	
410-109	.025"	10'	\$3.20
410-111	.050"	10'	\$3.20
410-113	.075"	10'	\$3.20
410-115	.100"	10'	\$3.50

Volume discounts available on quantities greater than 25 pieces



EDSYN®

SOLDAPULLT® Desoldering Pumps

One Hand Operation for Easy Removal of Solder

High-vacuum desoldering pump removes solder around component leads in circuit board holes. Two models to choose from: Model DS017 is made of high-impact plastic and comes complete with Teflon tip. Model DS017LS, made from special static conductive materials for safe desoldering of static-sensitive components, comes complete with conductive tip ID .125"/3.2mm. Pumps have an overall length of 13".

Part No.	Model	Description	Price
114-202	DS017	Desoldering Pump	\$18.40
407-294	DS017LS	Static-Free Desoldering Pump	\$23.70
114-409	SRT12	Teflon Tip for DS017	\$3.00
114-291	LS197	Conductive Tip for DS017LS	\$5.75



EDSYN®

SOLDAPULLT® Challenger

- ESD-Safe

Easy one-handed, thumb control for loading plunger. Molded from conductive material and comes with conductive tip for use on static sensitive components. Two models to choose from: SS750LS offers conductive plastic barrel, tip ID .100"/2.5mm. SS350 offers an aluminum barrel, tip ID .125"/3.2mm. Pumps have an overall length of 8.5".

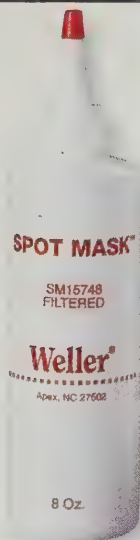
Part No.	Model	Description	Price
114-414	SS750LS	Desoldering Pump, Plastic Barrel	\$8.20
114-412	SS350	Desoldering Pump, Aluminum Barrel	\$12.55
114-294	LS751	Replacement Tip for SS750LS	\$2.25
114-292	LS363	Replacement Tip for SS350	\$7.10



Weller

Spot Mask™ Liquid Solder-Wave Mask

Thick latex material masks PCB holes and other surfaces requiring protection. Won't run and withstands soldering and cleaning environments. Ten mil coating dries in two to three hours at ambient temperature and peels clean. Formula is filtered for automatic dispensing. Available in 8 oz. squeeze bottle or 1 gallon container.



Part No.	Model	Description	Price
404-487	SM15748	8 oz. Spot Mask	\$6.85
404-488	SM15741	1 Gallon Spot Mask	\$80.75

TECHSPRAY

Wondermask® P Peelable Non-Ammoniated Latex

- No offensive odor
- Temporary solder mask

Prevents solder from flowing onto contacts, terminals, plated through-holes, etc. during wave soldering. Cured mask can be used in water or solvent systems and in masking for conformal coating. When applied the product appears opaque pink, and when cured it becomes translucent red indicating when to remove. Cures in 60 minutes at room temperature.



Part No.	Model	Description	Price
413-440	2211-8SQ	8 oz.	\$8.85
413-441	2211-G	1 Gallon	\$74.85

TECHSPRAY

Wondermask® WSOL Water Soluble Solder Mask

- Temporary solder mask
- 100% water soluble

Designed for closed loop and in-line aqueous cleaning systems. Non-stringing solder mask dissolves quickly in the water cleaning cycle. Does not contain clay and will not clog filters. Cures within 15 to 30 minutes.



Part No.	Model	Description	Price
413-438	2204-8SQ	8 oz.	\$11.35
413-439	2204-G	1 Gallon	\$97.85

ITW Chemtronics

Chemmask® Liquid Solder-Wave Masks

Prevents solder from flowing onto contacts, terminals, plated through-holes, etc. during wave soldering. Protects delicate components and prevents contamination during assembly operations. Withstands 515°F (268°C) long enough for wave soldering process. Can be applied by dip, brush or squeeze bottle.



Water Soluble, Non-Ammoniated Synthetic Resin

Dissolves quickly in batch cleaning and in-line water systems. Dries tack free in 1 hour. Leaves no residue, non-staining and contains a UV indicator for positive ID. Type CWF8 is water filterable and will not clog filters.

Peelable, Ammoniated Latex

Compatible with all flux systems and cleaning solvents. Dries tack-free in 30 minutes and leaves no residue. Easily removed by hand using tweezers or brush.

Part No.	Model	Description	Price
113-560	CM8	Peelable, Latex, 8 oz.	\$9.60

Part No.	Model	Description	Price
130-322	CW8	Water Soluble, 8 oz.	\$8.90
410-181	CWF8	Water Soluble, Filterable, 8 oz.	\$12.60

kester

CONNECTING INNOVATION™

TECHFORM™ Liquid Solder-Wave Masks

- Peels off cleanly without leaving residue

Prevents solder from flowing onto contacts, terminals, plated thru-holes, etc. during wave soldering. Protects delicate components and prevents contamination during assembly operations. Withstands 500°F, long enough for wave soldering process. Can be applied by dip, brush or squeeze bottle. Two types to choose from.

TC533 Peelable Ammoniated Latex

Strong and elastic, is stable under thermal cycling. Cures in 45 minutes at room temperature.

Part No.	Model	Description	Price
113-611	TC533	1/2 Pint	\$9.90
113-613	TC533	Pint	\$17.45
113-612	TC533	Gallon	\$57.45

TC530 Peelable Non-Ammoniated Latex

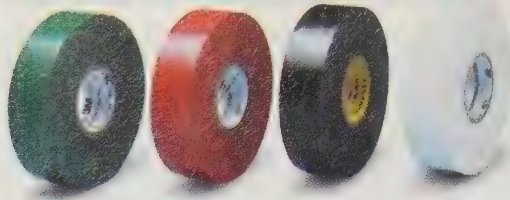
Can be used on bare copper substrates without causing oxidation. Cures in 30-60 minutes at room temperature.

Part No.	Model	Description	Price
113-608	TC530	1/2 Pint	\$13.95
113-610	TC530	Pint	\$22.40
113-609	TC530	Gallon	\$118.05





TAPE & DISPENSERS



Electrical Tapes

- High quality 33+ series
- UL listed

1700 Series is for less demanding indoor jobs. 33+ Black Tape is designed for more demanding environments. 35 Color Series is perfect for those jobs that require color-coding.

Part No.	Description	Size	Price
127-514	33+ Black Vinyl Tape w/Dispenser	-	\$4.80
251-131	33+ Black Vinyl	3/4" x 66'	\$4.25
127-361	35 White Vinyl	3/4" x 66'	\$4.10
402-814	35 Red Vinyl	3/4" x 66'	\$4.00
183-327	35 Green Vinyl	3/4" x 66'	\$4.10
183-328	35 Orange Vinyl	3/4" x 66'	\$4.10
183-330	35 Yello Vinyl	3/4" x 66'	\$4.10
183-324	35 Blue Vinyl	3/4" x 66'	\$4.10
251-189	1700 Temflex Tape, rolls, 10/pk.	-	\$7.40

Electrical Tapes

2242 linerless electrical rubber splicing tape is good for all voltage splicing, insulating and jacketing and can withstand temperatures up to 194°F, 266°F short term.

1755 cotton friction tape is designed to provide abrasion protection in wire and cable splices as well as an over-wrap for mechanical protection.

Part No.	Description	Size	Price
251-242	2242 Rubber Tape	3/4" x 15'	\$5.35
251-755	1755 Friction Tape	3/4" x 60'	\$3.30



Duct Tape

- 2" wide, 60-yard rolls.

6969 Highland™ Duct Tape: Polyethylene-coated for moisture proofing, duct sealing, protection and general purpose applications.

3939 Tartan™ Duct Tape: Contractor/utility grade. Seals against air and moisture leaks and for temporary sealing and bundling.

Part No.	Description	Price
251-696	6969 Duct Tape, Black, 1 Roll	\$10.50
251-697	6969 Duct Tape, Silver, 1 Roll	\$10.50
127-554	3939 Duct Tape, Silver, 1 Roll	\$8.10



Tape Dispensers

- Increase productivity
- Improve product appearance
- Reduce waste
- Reduce operator fatigue

With an automatic tape dispenser, when you reach for a piece of tape, it's always there. Lengths are fully adjustable. Precision steel cutting blades in each dispenser guarantee a clean cut every time. Dispensers are available for vinyl, masking, cellophane, polyethylene, paper, acetate cloth, cotton cloth, Mylar®, Kapton®, anti-static, polyimide, glass cloth, aluminum foil, double sided, Teflon®, Nomex®, glass filament and others. Reduce operator fatigue and material waste by eliminating tearing, twisting, crooked cuts or wrong lengths. Uniform pieces of tape will provide a professional appearance to your product - time after time.

We want to make sure the dispenser will accept your tape. Please send us a roll of the tape you wish to dispense. The tape will be sent to the manufacturer to be tested with the dispenser of your choice.



**EZ-7000
Compact
Electronic
Tape Dispenser**

Accepts tape widths from 1/4" to 2" (5 to 55mm). Cuts lengths from 3/16" to 39" (4 to 999mm). This unit does not use a bobbin, therefore any size tape core is useable. Four dispensing modes to choose from. Small size makes this unit easy to accommodate on the workbench or assembly station (4.5" x 14.0" x 21.5")

Part No.	Model	Description	Price
427-263	EZ-7000	Compact Electronic Tape Dispenser	\$785.00



Carousel Tape Dispenser

- Ideal for high volume jobs

Accepts tape widths from .120" to .990" wide (3 to 25mm). Cuts lengths from .510" to 2.370" (13 to 60mm). Accepts a maximum outside tape roll diameter of 5.14". Accepts tape with 3" core, but 1-1/2" adapters are available. Allows up to 10 pieces of tape to be cut at the touch of a button. Unique feed system places tape on carousel for easy removal.

Part No.	Model	Description	Price
409-617	2000	Carousel Tape Dispenser	\$628.00
410-287	725138	1-1/2" Core Adapter	\$12.50



Electronic Tape Dispenser

- Automatic cutter and tape feed

Accepts tape widths from .28" to 2" wide (7 to 50.8mm). Cuts lengths from .79" to 39" long (20 to 999mm). Cut length is displayed on an easy to read LED screen. Features an adjustable pressure feed that eliminates tape curling. Dispenser accepts a maximum outside tape roll diameter of 7" (178mm), and accepts tape with 3" core. Optional 1", 1-1/4" and 1-1/2" core adapters are available. Optional foot switch allows the operator to advance material with a simple tap of the foot.

Part No.	Description	Price
418-691	Electronic Tape Dispenser	\$634.60
418-692	1" Core Adapter	\$17.35
418-693	1-1/4" Core Adapter	\$54.20
418-694	1-1/2" Core Adapter	\$28.65
418-695	Foot Switch	\$78.70





SHERCON Water-Soluble Masking Discs

Static free discs withstand 5 to 8 seconds of solder wave exposure to 500°F (260°C) without adhesive transfer. Dissolves completely in hot water (120°F), leaving no residue. Come 5000 discs per roll.

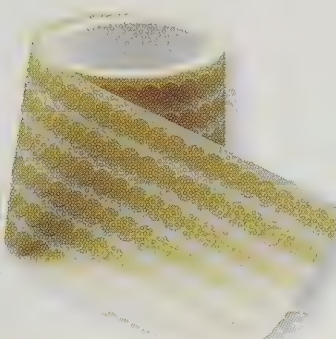
Part No.	Description	Price
113-622	1/2" Water-Soluble Discs	\$76.75



SHERCON Paper Masking Discs

Creped back paper discs withstand 5 to 8 seconds of solder wave exposure to 510°F (266°C) without adhesive transfer. Come 5000 discs per roll.

Part No.	Description	Price
113-497	1/4" Paper Discs	\$19.20
191-802	3/8" Paper Discs	\$36.75
113-495	1/2" Paper Discs	\$39.15



EMI/RFI Shielding Tapes

- Shielding
- Grounding
- Smooth or embossed finish

Copper foil electrical tapes provide an easy to apply, time-saving, cost effective way to shield against EMI/RFI radiation. It offers mechanical and thermal values to meet shielding effectiveness frequency requirements. Meets UL 510 requirements for flame retardancy. Rolls are 1" wide by 18 yards long and are available in smooth (with conductive adhesive) or embossed (with non-conductive adhesive) finish.

Part No.	Model	Description	Price
130-142	1181-1	Copper Tape, Smooth	\$29.70
130-143	1245-1	Copper Tape, Embossed	\$25.70



Safety Stripe Tape

Alternating colored striped tapes for marking floors and objects to identify safety areas and hazards. Roll size: 5 mil, 2" wide x 36 yards long. Available with black/white or black/yellow stripe.

Part No.	Model	Description	Price
407-348	5700-2	Safety Tape, Black & White Striped	\$32.85
407-349	5702-2	Safety Tape, Black & Yellow Striped	\$32.86



SHERCON Kapton® Masking Tape

Masks solder from edge connectors, holes, and other areas on circuit boards during the wave-soldering process. Excellent high-temperature resistance (500°F) and is easily removed without residues. Comes in 36 yd. rolls.

Part No.	Description	Price
160-777	1/4" Kapton Tape	\$5.25
173-195	3/8" Kapton Tape	\$8.40
151-105	1/2" Kapton Tape	\$10.60
173-184	5/8" Kapton Tape	\$20.05
160-771	3/4" Kapton Tape	\$15.85
173-836	1" Kapton Tape	\$28.60



SHERCON Paper Masking Tape

Masks solder from edge connectors, holes, and other areas on circuit boards during the wave-soldering process. Creped backed paper tape withstands 5 to 8 seconds of solder wave exposure to 510°F (266°C) without adhesive transfer. Comes in 60 yd. rolls.

Part No.	Description	Price
113-498	1/4" Paper Tape	\$2.35
403-667	1/2" Paper Tape	\$2.70
403-669	3/4" Paper Tape	\$3.55
403-668	1" Paper Tape	\$4.75



Water-Soluble Masking Tape

Masks solder from edge connectors, holes, and other areas on circuit boards during the wave-soldering process. Static free tape that dissolves completely in hot water (120°F), leaving no residue. Comes in 60 yd. rolls.

Part No.	Description	Price
113-627	1/2" Water-Soluble Tape	\$27.80
113-630	3/4" Water-Soluble Tape	\$35.05
113-626	1" Water-Soluble Tape	\$37.10



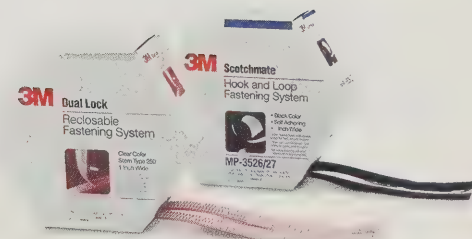
Hook & Loop and Dual Lock Reclosable Fasteners

- Advanced closure alternatives

Hook & Loop Fasteners offer general purpose fastening with pressure-sensitive rubber adhesive that bonds to most surfaces.

Dual Lock Reclosable Fasteners are for high performance applications and have a very high bond UV and plasticizer resistant adhesive.

Part No.	Description	Size	Price
251-526	Hook & Loop Fasteners, Black	1" x 4.9 yds.	\$34.10
251-560	Dual Lock Reclosable Fasteners, Clear	1" x 4.9 yds.	\$71.70



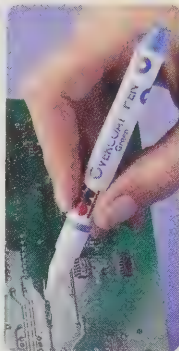


Circuitworks® Conformal Coating Pen

Precise Application of a Tough Protective Acrylic Coating

- Simple to use - single component system
- Protects against moisture & abrasion damage
- High dielectric strength - helps prevent electrical discharge
- Dries quickly at room temperature

Excellent adhesion to circuit board materials and solder masks. Polymer coating is safe for gold, silver, copper, and solder alloys and has a dielectric strength of 500VDC/mil. Available in clear or green.



Part No.	Description	Price
119-554	Conformal Coating Pen, Clear	\$12.90
119-555	Conformal Coating Pen, Green	\$12.90

Circuitworks® Circuit Trace Pen

Draw Highly Conductive Silver Traces, Jumpers & Shielding

- Quickly & precisely creates conductive silver traces
- Solderable at low temperatures
- Dries in minutes at room temperature

Use it on printed circuit boards to link components, repair traces, make smooth jumpers and shield delicate components. The conductive ink adheres to all printed circuit board materials, and is fully conductive after twenty minutes. Resistivity is .03-.05 ohm/sq @ 1 mil. Pen comes filled with enough silver conductive ink to make 100 ft. of conductive traces.

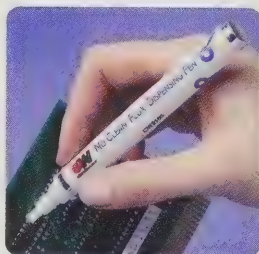


Part No.	Description	Price
127-474	Circuit Trace Pen	\$16.30

Circuitworks® Flux Dispensing Pen

Excellent for Rework and Touch-Up

Pen permits precise application of flux where you want it, eliminating the mess from flux bottles. Chisel shaped tip dispenses just the right amount of flux and stops waste while limiting operator exposure to soldering chemicals. Available in two formulations: **No Clean**, Part No. 191-958, is a non-corrosive, halide free, organic no-clean flux. Meets Bellcore TR-NWT-000078 and IPC SF-818 for surface installation resistance. Rosin, Part No. 408-447, is a non-corrosive type R flux. Meets MIL-F-14256.



Part No.	Model	Description	Price
191-958	CW8100	"No-Clean" Flux Pen	\$5.50
408-447	CW8200	Rosin Flux Pen	\$5.30

TECHSPRAY

Circuit Board Repair Pens

Complete line of circuit board repair pens for ease-of-use board repair and rework. Available individually or as a 6-piece kit with carrying case.

Conformal Coating Remover Pen, Part No. 413-714, removes conformal coatings including acrylic, urethane and silicones. Non-corrosive, fast stripping and dries quickly.

No Clean Flux Pen, Part No. 413-715, this resin and halide-free no-clean flux will leave no residues on PCBs after rework/repair.

Flux Remover Pen, Part No. 413-716, dissolves type R, RMA, SA and most no-clean fluxes and dries quickly.

Conductive Pen, Part No. 413-717, repairs traces, links components, makes smooth jumpers. Silver filled ink makes conductive silver traces instantly, dries in 3-5 minutes and after 30 minutes trace will exhibit electrically conductive characteristics.



Overcoat Pens, Part No. 413-718 (Clear) or 413-719 (Green), protects conductive pen traces, prevents shorting and arcing. Designed to insulate printed circuit board traces and components against high voltage arcing, moisture and abrasion.

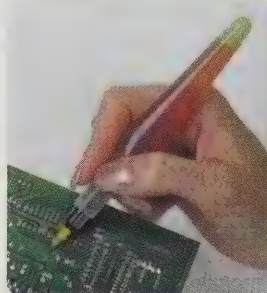
Part No.	Model	Description	Price
413-714	2510-N	Conformal Coating Remover Pen	\$6.65
413-715	2507-N	No-Clean Flux Pen	\$4.55
413-716	2506-N	Flux Remover Pen	\$6.30
413-717	2505-N	Conductive Pen	\$12.80
413-718	2508-N	Overcoat Pen (Clear)	\$10.40
413-719	2509-GN	Overcoat Pen (Green)	\$10.40
417-480	2512-Kit	6-Piece Pen Kit w/Case	\$45.45

Liquid Dispensing Tool

Pen-like Tool Allows Controlled Application of Liquid Solutions

- Fill with liquid of your choice

Material is dispensed by lightly squeezing the barrel and you control the amount of material flow. Tool is made of polypropylene and can be used with fluxes, alcohol, protective coatings, adhesives, etc. (please pre-test material for compatibility). The transparent cartridge—allows you to see the amount of remaining material—has a capacity of 7cc (0.2 oz.). Tool is 7" long and comes with a fine nylon tip and a tight fitting cap to prevent evaporation. Ten per package.

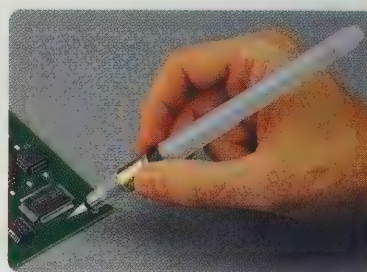


Part No.	Description	Price
415-841	Dispensing Tool, Package of 10	\$83.05

BONKOTE™ Flux Dispensing Tool

- Fill it with the flux of your choice
- Controlled application eliminates mess
- Suitable for all types of fluxes

This pen-like tool allows you to dispense flux accurately and without dripping and flooding. Dispensers have a capacity of 7cc and come with a fine nylon brush tip. Five per package.



Part No.	Model	Description	Price/Pkg.
401-860	102	Flux Dispensers, Package of 5	\$86.25

PCB Marking Pens

Mark defective connections and ECOs directly on the PC board. Then proceed with your normal resoldering and defluxing process, and the markings will be washed off. Markers are available in a **rosin flux** or in a **water soluble** version. The rosin marker conforms to Mil-F-14256, for a type RMA flux, and comes in red. The **water soluble** marker is easily and completely removed in a hot water rinse, and is available in orange or blue.



Part No.	Description	Regulated Material	Price
111-675	Rosin Marker, Red	Yes	\$5.15
419-575	Water Soluble Marker, Blue	No	\$5.15
419-576	Water Soluble Marker, Orange	No	\$5.15



Lead-Free Tip Tinner/Cleaner

Prolongs Tip Life

- Lead-free ■ Rosin-free ■ No halides
- Residue-free ■ ESD-Safe



All major manufacturers of soldering tips recommend that you pre-tin the tip when using for the first time, that you tin the tip during soldering to remove oxides and polymerized fluxes, and that, when work is completed, you tin the tip prior to storage. This specially formulated "tip tinner/cleaner" prolongs the tip life protecting it from the harsh soldering environments of Rosin, No-Clean, and Water-soluble fluxes. The usage of these fluxes allows the build-up of oxides on the tip, causing poor thermal transfer and de-wetting of the tip surface. Just a wipe of the solder tip across the Tip Tinner cleans, wets and tins the tip. Two container sizes to choose from. For small tips, use the 1" diameter container. For large surface mount removal tips, use the 2" diameter container.

Part No.	Description	Price
401-896	1" Diameter Container, 1/2 oz.	\$6.25
401-897	2" Diameter Container, 1-1/2 oz.	\$11.40



Tip Tinner/Cleaner

- Lead-free ■ Residue-free ■ ESD-Safe

A well tinned soldering tip improves operator performance and prolongs tip life. Lead-free tip tinner/cleaner is a fast, efficient and safe way of re-tinning oxidized soldering tips. Just wipe oxidized soldering tip into the tip tinner/cleaner for a few seconds until the bright tinning surrounds the end of the tip, then wipe the excess on a wet sponge.

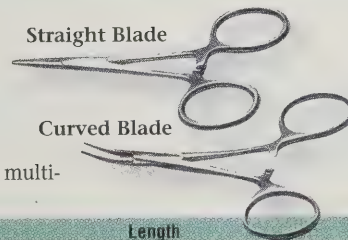
Part No.	Description	Price
407-006	1-1/2" Diameter Container, .70 oz.	\$4.90



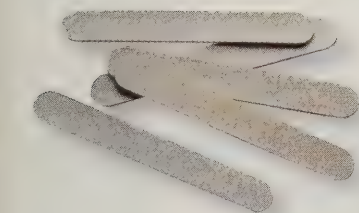
All-Purpose Hemostats

- Available in straight or curved jaws

Stainless steel, box-joint construction, serrated tips and multi-purpose snap locks.



Part No.	Description	Length	Price
23-022	Straight Hemostats Set, 4 pc.	3-1/2, 5, 6, 7"	\$25.50
23-024	Set of 4 Curved Hemostats 3-1/2, 5, 6, 7"	3-1/2, 5, 6, 7"	\$26.40
191-193	Straight Hemostats	3-1/2"	\$6.05
191-329	Curved Hemostats	3-1/2"	\$6.40
191-209	Straight Hemostats	5"	\$7.65
191-235	Curved Hemostats	5"	\$7.90
191-229	Straight Hemostats	6"	\$7.90
191-315	Curved Hemostats	6"	\$8.10
191-299	Straight Hemostats	7"	\$8.95
191-309	Curved Hemostats	7"	\$9.15

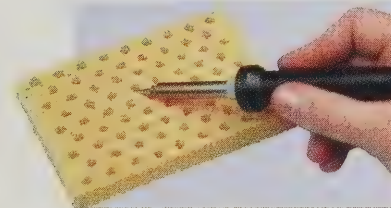


Tongue Depressors

Manufactured from white birch. Use as soldering aids. Dimensions: 6" long x 3/4" wide. Packaged in a box of 500.

Part No.	Model	Price
411-826	705S	\$10.75

Swiss Sponge™



Specially designed with numerous holes to easily trap solder oxides and burnt flux, keeping contaminants off the tip and out of the solder connections. A single pass of the solder tip over the sponge easily removes all of the excess solder and residue. The Swiss Sponge™ fits the most popular soldering stations. The one-size-fits-all sponge (measures 3.5" x 4.8") comes with trimming patterns and can be trimmed to fit most standard sponge trays.

Part No.	Description	Price
113-464	Equivalent to Weller TC205 Sponge	\$2.25

Tip Cleaner

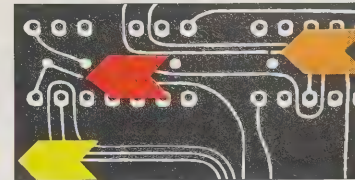
Never Needs Water

Soft wire mesh design cleans tips without using water and will not reduce tip temperature as with wet sponges. Instead of using a wiping motion as with regular sponges, just thrust the iron tip straight into the mesh and remove.



Part No.	Description	Price
423-404	Tip Cleaner	\$9.38
423-097	Wire Mesh Replacement	\$6.75

SHERCON Inspection Arrows



Identify Areas on PCBs Quickly & Easily

Colorful identification arrows point to areas on circuit boards that require action. Die-cut, pressure-sensitive paper arrows can be affixed permanently, or can be removed and repositioned without leaving residues. Available in standard or fluorescent colors. Arrows measure 3/16" H x 1/4" W, and come packaged 1000.

Part No.	Color	Price
191-836	Standard Red	\$5.85
119-542	Standard Orange	\$5.85
119-544	Standard White	\$5.85
191-838	Standard Yellow	\$5.85
191-834	Standard Green	\$5.85
119-540	Standard Blue	\$5.85
119-548	Fluorescent Red	\$5.85
119-547	Fluorescent Pink	\$5.85
119-549	Fluorescent Yellow	\$5.85
119-546	Fluorescent Green	\$5.85



Silicone Heat Sink Grease

Facilitates Heat Transfer Away from Electronics & Electrical Components

- Excellent thermal & dielectric properties
- Will not dry out, harden or melt
- Non-corrosive & non-flammable
- Meets MIL-C-47113D, Type I

Non-corrosive silicone grease is thickened with a heat-conductive metal oxide filler that provides excellent thermal transfer away from electrical/electronic components. Stable from -40°F to 342°F. 5 oz tube.



Part No.	Model	Description	Price
400-220	CT40-5	5 oz. Tube	\$14.10



113-404

113-408

113-287

113-403



Stainless-Steel Probers

Hex handles and spring wire tips are made of stainless steel. Solder will not stick and tips are surgically sharp. Length 5-1/2".

Part No.	Model	Description	Price
113-404	SH117	Off-set Angled Point #17	\$4.85
113-408	SH123	Hook End #23	\$4.35
113-287	SH141	Straight Point #1	\$4.35
113-403	SH116	Angled Point #6	\$4.35

130-620

130-619



SMT Soldering Aids

Soldering aids specifically designed for SMT feature a .001" diameter at the tip to reach between fine pitch leads for aligning and joint testing. High tensile strength needle made from special alloy stainless steel provides long life. Straight and 50° styles available.

Part No.	Description	Price
130-620	SMT Soldering Aid, Straight	\$11.70
130-619	SMT Soldering Aid, Angled	\$11.70



RocHard One MilProbe

- For ultra-fine pitch and rework under a microscope
- Ideal for TABs and BGAs

Tip diameter is .001" and bends at a 50° angle to access tight spaces between leads under a microscope. Stainless steel hex shaped handle provides easy grasp for delicate operations, and prevents tool from rolling. Tip length is 0.50". Handle is 4-7/8".

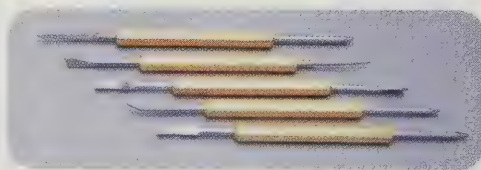
Part No.	Model	Description	Price
407-591	SH316	One MilProbe	\$26.45



Shockproof Spudgers

Made of vulcanized fiber. Heat-resistant to 1,000°F.

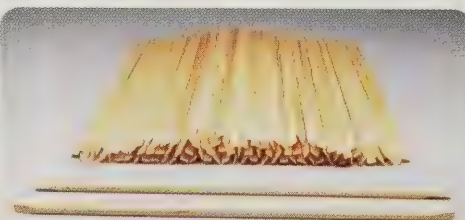
Part No.	Model	Description	Price
113-423	SH80	Flat-Sided Body, 6" x 1/4"	\$6.20
113-424	SH81	Round Body, 5-1/2" x 5/16"	\$8.35



Soldering Aids

Solid rock-maple handle and hardened tool steel ends. Satin-chrome finish to repel solder.

Part No.	Model	Description	Length	Price
244-105	SH20C	Reamer/Fork	5-1/2"	\$7.10
244-103	SH20A	Reamer/Fork	8"	\$6.90
113-414	SH20D	Angled Reamer/Fork	5-1/2"	\$6.90
113-412	SH20B	Angled Reamer/Fork	8"	\$6.90
113-415	SH20E	Reamer/Beveled Scraper	5-1/2"	\$6.90
113-421	SH20L	Reamer/Beveled Scraper	8"	\$7.10
113-416	SH20G	Stainless Steel Brush/Scraper	5-1/2"	\$7.00
113-419	SH20K	Stainless Steel Brush/Scraper	8"	\$7.00
113-420	SH20KF	Stainless Steel Brush/Fork	8"	\$5.65



"Orange" Sticks

Made of high quality non-resin wood which will not contaminate solder or component leads. Used as soldering aids, and strong enough to bend component leads and break bridges. Length 7". Packaged in lots of 100.

Part No.	Description	Price
113-425	"Orange" Sticks	\$15.35



Stainless-Steel Prober Kit

Includes Models SH141, SH116, SH117, and SH123.



Part No.	Model	Description	Price
113-409	SH125	Stainless-Steel Prober Kit	\$18.45

MENDA	161-925
MENDA	162-804
MENDA	173-600
MENDA	161-696
MENDA	150-861
MENDA	151-168



Prober & Spudger Tools

- Heat resistant
- Will not mar delicate surfaces



Part No.	Model	Description	Price
161-925	35516	7" Birchwood Orange Sticks, 100/Pkg.	\$24.30
162-804	35517	7" Birchwood Spudger	\$0.85
173-600	35618	7" Nylon Probe	\$1.25
161-696	35619	6-3/4" Nylon Orange stick/Soldering Tool	\$1.25
150-861	35621	5-1/2" Heavy Duty Nylon Soldering Tool/Probe	\$1.25
151-168	35622	6" Nylon Soldering Tool/Probe	\$1.25



Soldering Tool

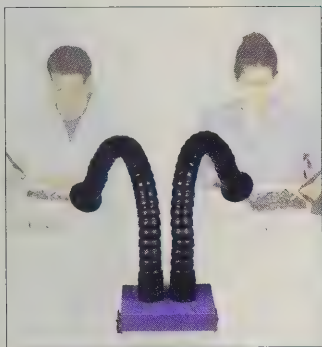
- ESD-Safe

Soldering tool is constructed from 33% glass-filled heat-resistant nylon plastic. Features a pointed tip to hold components while soldering. Flat screw-driver shaped blade for spudger leads and a notch to assist in hooking wires and leads.

Part No.	Model	Description	Price
411-785	SP3010	Soldering Tool	\$1.25



Options Available for One or Two Operators

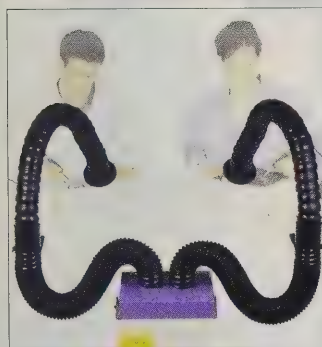


Configuration for One Operator

Part No.	Required Qty	Model	Description	Price
418-753	One	8888-0110	Filtration Unit Only	\$595.00
418-754	One	8886-0750	Round Nozzle with 3 ft. Flexible Arm	\$106.00

Configuration for Two Operators

Part No.	Required Qty	Model	Description	Price
418-753	One	8888-0110	Filtration Unit Only	\$595.00
418-754	Two	8886-0750	Round Nozzle with 3 ft. Flexible Arm	\$106.00



Configuration for One Operator

Part No.	Required Qty	Model	Description	Price
418-753	One	8888-0110	Filtration Unit Only	\$595.00
418-755	One	8886-0765	Round Nozzle with 3 ft. Flex Arm, Bench Mount and 8 ft. Hose	\$156.00

Configuration for Two Operators

Part No.	Required Qty	Model	Description	Price
418-753	One	8888-0110	Filtration Unit Only	\$595.00
418-755	Two	8886-0765	Round Nozzle with 3 ft. Flex Arm, Bench Mount and 8 ft. Hose	\$156.00



Configuration for One Operator

Part No.	Required Qty	Model	Description	Price
418-753	One	8888-0110	Filtration Unit Only	\$595.00
411-814	One	8886-0429	2" Metal Flex Arm, 3 ft. Long, ESD-Safe	\$207.48
411-815	One	8886-0552	Bench Mounting Bracket	\$108.16
401-914	One	8886-0299	8 ft. Flex Hose with 3" to 2" Reducer	\$58.00

Configuration for Two Operators

Part No.	Required Qty	Model	Description	Price
418-753	One	8888-0110	Filtration Unit Only	\$595.00
411-814	Two	8886-0429	2" Metal Flex Arm, 3 ft. Long, ESD-Safe	\$207.48
411-815	Two	8886-0552	Bench Mounting Bracket	\$108.16
401-914	Two	8886-0299	8 ft. Flex Hose with 3" to 2" Reducer	\$58.00

FumeFlo Worktable

- For use with Arm-Evac 105 filtration unit
- ESD-Safe

Worktable combines laminar flow and downdraft containment to provide the maximum level of protection from hazardous fumes. Features a fully adjustable airflow controller to allow the operator to adjust the ratio of laminar flow to downdraft capture. Comes complete with foam filter and 8 ft. of ESD-Safe flex hose for easy connection to the Arm Evac 105. Optional equipment shelf allows you to stack solder equipment to preserve bench space. Dimensions are 6.75" H x 18" W x 23.5" D. Weighs 13 lbs.



FumeFlo Worktable shown with optional equipment shelf

Part No.	Model	Description	Price
418-756	8886-0200	FumeFlo Worktable	\$348.00
418-757	8883-0225	Replacement Foam Filter	\$34.00
418-758	8886-0205	Optional Equipment Shelf	\$85.00

Arm-Evac 105 Fume Extraction System

- Cost effective system for 1 or 2 stations
- Compact, portable, lightweight and self-contained
- Fits easily on or under a work station
- Easy to install
- ESD-Safe

This system offers reliable performance, quiet operation and optimal flow rates. The filtration unit is constructed of heavy duty 20 gauge steel, and includes a maintenance free brushless motor. It can be placed on the benchtop or easily fitted under a bench. Comes complete with pre-filter and combo particle/gas filter. Optional filters are also available.

Part No.	Model	Description	Price
418-753	8888-0110	Filtration Unit Only	\$595.00
130-472	8883-0111-P5	Pre-Filter	\$82.16
418-787	8883-0901	Combo Particle/Gas Filter	\$135.20
130-473	8883-0871	Optional Economy Foam Filter	\$98.28
407-644	8883-0951	Optional Adhesive Filter	\$267.80
407-643	8883-0921	Optional Cleanroom Filter	\$278.72

Arm-Evac 105 Specifications	
Flow Rate	Single Inlet: 130CFM Dual Inlet: 140CFM (70CFM per inlet)
Filter Cartridge	Standard: Combo
Power	110VAC, 60Hz (3 amps)
Dimensions	19.6" H x 11.5" W x 11.5" D
Weight	25.3 lbs.



Shown with optional 75mm flex arm

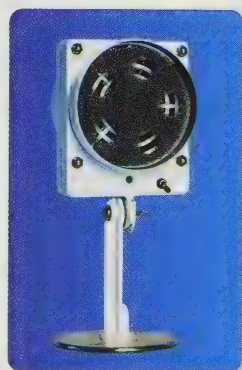
FX300 Fuminator™ Fume Extraction System

Effective Solution to Create a Healthy Environment

- Installed in less than 5 minutes
- Quiet operation
- Easy filter change
- High efficiency
- Max. CFM w/filters installed: 188
- Small footprint: 17" H x 13" W x 12" D
- Portable - 33lbs

Designed to provide an efficient and cost effective solution to almost any volume fume extraction problem. Unit comes standard with a pre-filter, and a pleated main filter providing 95% filtration of particulate down to 0.5 microns. Optional 75mm esd-safe flexible arms with fume scoop are sold separately.

Part No.	Model	Description	Price
140-235	FX300	Fume Extraction Unit	\$770.00
140-236	FXS7518	75mm Flex Arm	\$132.75

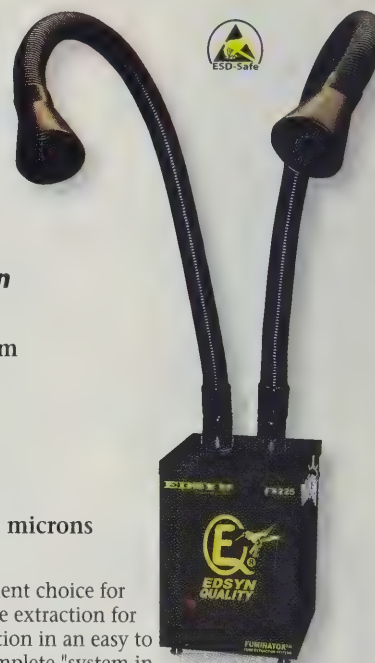


Fuminator™ Benchtop Fume Extractor Fan

Remove Fumes from a Small Localized Space

- ESD-safe
- Compact unit
- Available in black or white

Part No.	Model	Description	Price
141-436	FXF14	Black Benchtop Fume Extractor	\$130.35
425-608	FXF14W	White Benchtop Fume Extractor	\$100.80
417-090	XF01	Replacement Filter Set	\$11.95



FX225 Fume Extraction System

Hassle Free Fume Extraction for Two Operators

- Powerful self-contained vacuum
- Filter change indicator light
- Quick & easy filter change
- Gas filtration included
- Easy installation
- Quiet operation: >55dba
- HEPA filtration 99.997% to 0.3 microns
- Small footprint

Fume extraction system is an excellent choice for compact, efficient, and hassle-free fume extraction for 2 operators. Providing true HEPA filtration in an easy to set up and easy to maintain unit. A complete "system in a box" that includes the filtration unit, filters and 2 extraction arms. Airflow: 120 cfm with installed filters. Dimensions are 10" x 10" x 17". Weighs 22 lbs.

Part No.	Model	Description	Price
423-438	FX225	Fume Extraction System	\$772.00
423-439	XF2501	Pre-Filter, Pkg/5	\$27.72
423-440	XF2503	Combined HEPA/Gas Filter	\$277.20



FUMINATOR Bench Top Fume Extractor

Highly Efficient Two-Stage Filtration System

- ESD-Safe

Bench top fume extractor features a compact high efficiency two-stage charcoal impregnated filtration system. This allows optimum filtering capability at the fume source. A powerful 12V fan motor draws fume away from the operator with ultra quiet operation. Extractor is adjustable to almost any working angle. Bright front and rear LED's indicate power and air flow direction. Base features a convenient solder spool holder. Overall dimensions: 5.5" W 12" H 5.5" D. Operates on 120VAC.

Part No.	Model	Description	Price
174-350	FXF11	Bench Top Fume Extractor	\$88.00
417-090	XF01	Replacement Filter Set	\$11.95



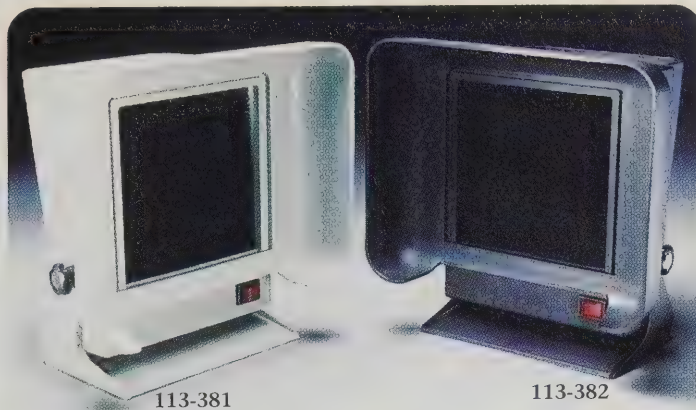
FUME EXTRACTORS & FANS



Bench-Top Smoke Absorbers

Draws Fumes Away From Work Place

■ Benchtop and arm mounted versions



Quiet, powerful fan filters and diverts smoke and irritating vapors away from the benchtop, providing safer working conditions. Excellent for lab and plant operations involving soldering, cleaning and adhesives. Activated carbon filter absorbs up to 80% of these noxious fumes creating a healthier and safer environment for the operator. Benchtop models have an adjustable stand for directing airflow and arm-mounted models feature an articulated arm with a 24" reach for positioning anywhere above the work area. All models have an airflow of ~105 cfm and a grill behind the filter to protect fingers and tools from the fan blades. **Models SA-9-115 and SA91** are made of high-impact plastic. **Models SA-9E-115 and SA91E** are ESD safe, featuring static dissipative housings. Come with three filters (5-1/2" x 5-1/2"), have 3-wire power cords (115 VAC) and measure 8-1/4" x 9" x 4-1/4". A retrofit kit (SAK90) converts existing benchtop models to arm-mounted style.

Part No.	Model	Description	Price
113-381	SA-9-115	Benchtop, Standard	\$107.10
113-382	SA-9E-115	Benchtop, ESD-Safe	\$159.95
113-385	SA-91	Arm Mounted, Standard	\$242.30
130-629	SA-91-E	Arm Mounted, ESD-Safe	\$269.25
113-386	SAF-1	Replacement Filter, 3/Pkg	\$22.70



WHITE LITES®
O.C. White Co.

ESD-Safe Smoke Absorber

Features a low-noise fan (100 cfm) with a carbon-activated filter that quickly removes smoke and fumes from the work area. Unit is mounted on a 37", spring-balanced arm that allows easy movement and positioning. Operates on 115V and is available with either a horizontal mounting clamp or with a screw-down mount. Made of static-dissipative material. Black finish.

Part No.	Model	Description	Price
113-145	50020	Absorber w/Horizontal Mounting Clamp	\$262.00
113-146	50030	Absorber w/Screw-down Mount	\$273.95
407-023	8883-0200-P5	Replacement Filters (5/Pkg)	\$26.00



PAGE®



Arm-Evac 50 Benchtop Fume Extraction System

- Adjustable airflow up to 90 cfm
- ESD-Safe

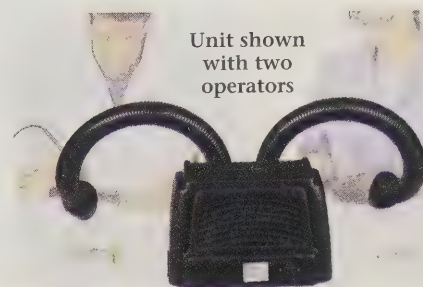
Portable benchtop system is designed to provide a wide area of fume extraction. An optional arm attachment allows fume extraction at two points or provides fume extraction for two operators. Features operator adjustable airflow, quiet operation (54 dBA) and small footprint, 8.5" H x 13" W x 12.5" D. Comes complete with pre-filter and general purpose filter. Optional filters are also available. Operates on 115VAC 60/50Hz and weighs 13 lbs.

Part No.	Model	Description	Price
417-495	8889-0050	Fume Extraction Unit	\$650.00
417-496	8886-0055	Dual Arm Accessory	\$88.50
417-497	8883-0280	Replacement General Purpose Filter	\$34.00
417-498	8883-0125-P5	Replacement Pre-Filters	\$17.75
417-499	8883-0295	Optional Adhesive Filter	\$39.00
418-752	8883-0290	Optional Cleanroom Filter	\$39.00



Unit shown as benchtop plenum

Unit shown with optional arm adapters



Unit shown with two operators



PAGE

ESD-Safe Smoke Absorber

*Remove Harmful
Fumes from
Operator's
Breathing Zone*

- Remove solder flux fumes
- High air flow - 35CFM
- 3 height adjustments
- Pre-drilled holes for mounting
- Static-safe housing

Harmful fumes are drawn through an activated carbon impregnated foam filter. The air is filtered, cleaned and returned to the workplace. Measures 8.7" wide x 10.6" high x 6.6" deep, operates on 115 VAC, 50/60 Hz, 17 Watts and comes complete with three filters.

Part No.	Model	Description	Price
407-022	FX50	ESD-Safe Smoke Absorber	\$98.80
407-023	8883-0200-P5	Replacement Filters (5/Pkg)	\$26.00



Unit shown
with
arm adapter



Unit shown as
benchtop
plenum

METCAL



Benchtop Fume Extraction Systems

Small, Space-Saving Footprint with Quiet Operation

- No installation required
- Two filtration levels available
- ESD-Safe

Portable benchtop system is designed to perform efficient plenum or arm fume extraction. Simply set the unit on the bench and the 12" wide plenum will allow for instant fume extraction or attach the arm adapter for collection at the fume source. Requires no installation, has a small, space-saving footprint and matches the airflow of large multi-user systems. Features quiet operation and a bi-colored LED light to indicate blocked filters. Two models to choose from. Model BVX-101 comes with a 99.97% efficient HEPA filter for cleanroom quality. Model BVX-103 comes with a deep-bed gas filter for light duty organic solvent and adhesive applications. Both systems offer a flow rate of 50 cfm and noise level is less than 55db. Unit measures 11.5" H x 12" W x 9" D and weighs 20 lbs. Operates on 90-264VAC, 47-440Hz.

Part No.	Model	Description	Price
416-702	BVX-101	Fume Extraction Unit w/HEPA Filter	\$495.00
416-703	BVX-103	Fume Extraction Unit w/Gas Filter	\$670.00
416-704	FG-BVX	Replacement Gas Filter	\$77.25
416-705	FM-BVX	Replacement HEPA/Gas Filter	\$77.25
416-706	FP-BVX	Replacement Pre-Filters	\$25.70

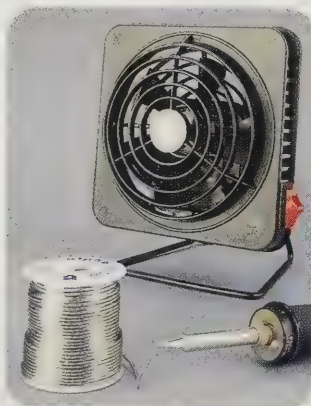
Personal Bench Fan

*Dissipates
Irritating Fumes
and Vapors
Away from You*

- Compact size
- 130 cfm

This benchtop fan helps dissipate vapors, smoke, and fumes of soldering, gluing, cleaning solvents—any irritating vapor. Compact size: 7-1/2" H x 6" W x 4-1/2" D, doesn't take up valuable bench space. Whisper-quiet, 2-speed vibration-free motor moves 130 cfm. Adjustable stand directs airflow, and grill protects hands and tools from fan blades. Operates on 120VAC. Consumes only 1/2 the electricity of a 60W light bulb. Comes with 8 ft. cord, on/off switch, and 1-year warranty.

Part No.	Description	Price
400-429	Personal Bench Fan	\$38.30



BT75 Fume Extraction System with 55mm Flex Arm



*Improves Your Working
Environment and Your Health*

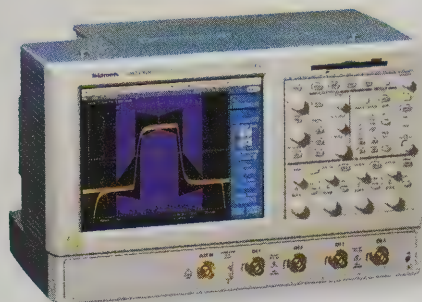
- Use in soldering, glueing, coating, dust, smoke
- Plug it in - ready for use
- High quality microfilter
- Unit can be mounted to bench

A high quality microfilter ensures that particles are removed efficiently. The separation degree is 99.99% dop at at0.3 micron. 75m³/h gives a good airflow and a large capture area for smoke and dust. To save space the BT75 can also be hung at the workbench. This also makes it convenient to clean underneath. Comes with a HEPA filter, charcoal odor filter and pre-filter to ensure longer filter life. Also includes one 55mm fume extraction arm and nozzle. Sound level is 54dB. Operates on 100-250W, 60Hz.

Part No.	Model	Description	Price
425-603	BT75	Fume Extraction System	\$699.00



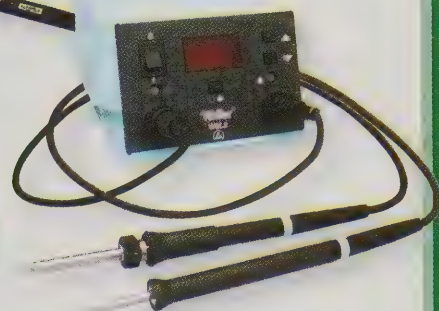
New



Tektronix See page 80



Weller



See page 492



See catalog insert

Design

DESIGNED FOR
CONVENTIONAL
&
LEAD-FREE
SOLDER ALLOYS™

Production

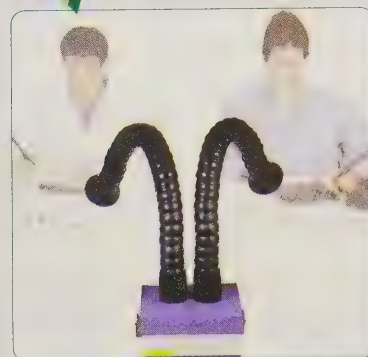
Process



kester®
CONNECTING INNOVATION™
See page 491



TECHSPRAY See page 485



PAGE® See page 541



110 & 66 To Modular Adapters	211
110 Blocks	162
25 Pair Connectors	167
66 Block	162
3M	
Conductive Shoe Grounder	346
Ear Muffs	439
Ear Plugs	439
ESD Safe Container	366
Grounding Cord	353, 355
Ionizer	357
Static Control	343, 345, 346, 348 - 351, 353, 354, 357, 358, 362, 366
Static Dissipative Mats	348, 350, 354
Tape	359, 536, 537
Vacuum Cleaners	328
Wire Markes	339

A

Acetone	482
Acid Brushes	305, 540
ACL	
Floor Cleaners	341
Hand Lotion	341
Static Control	341, 358
Static Tester	345
Waste Basket	359
Adapters	
Modular	163, 210
Adhesives	448, 450, 452 - 457
Dispensers	459, 460, 463
Epoxy	456
Hot Melt	456
Instant Bonder	452
Removers	450
RTV Silicone	457
Thermally Conductive	457
AEMC	123, 137, 138, 141, 146
Aerosol Cleaners	473, 475 - 483, 485, 486
Agilent	
Counters	98
Current Shunts	136
Data Acquisition System	97
Device Probes	134
DMMs	129
Function Generators	100
Oscilloscopes	89, 91
Power Supplies	105, 106
AirBaths	531
Akro Mils	371, 372, 378, 379, 391, 394
Alcoa Fujikura	181
Alcohol, Isopropyl	482
Alignment Tools	135, 275
Allen	
Adjustable Wrenches	285
Wrenches	285
Alma	447
American Beauty	523
AMP	
Insertion/Extraction Tools	170
Modular Crimping Tool	230
Analog Oscilloscopes	88, 90
Anti-Seize	449
Anti-Static	
Cleaner	341, 352, 355
Floor Finish	355
Foam	366
Gloves	441 - 444
Spray	341

Swabs	464
Tape	359 - 361
Tape Dispenser	360, 361
Wipes	341, 352
Applicators, Cotton	464
APS	530, 531
Arlink	365, 404 - 406
Arrows, Inspection	539
ASG/Hios	300 - 303, 536
Assembly Technologies	528
Aven	
Alignment Tool	135
Cutters	243
Illuminated Magnifiers	418
Lamps	420
Microscopes	427
Pliers	243

B & K

Component Testers	128
Function Generators	99, 100
Isolation Transformers	103
Oscilloscopes	88, 90
Power Supplies	101 - 103, 106
Spectrum Analyzer	95
TV Pattern Generator	189
Back Support	438
Bags	
Humidity Indicator Cards	363
Static Control	362, 363
Tool	56, 228
Utility	56
Vacuum	329
Balldriver Hex Tools	260, 276, 277
Bartol	128
Batteries	437
Battery Tester	147, 437
Bausch & Lomb	429, 430
Beard Covers	446
Beautech	540
Benches	397 - 406
Best	
Gloves	441
Bevco	407 - 409, 413
Binoculars	331
Bins	
Reel Storage	369
Storage	370, 374 - 377, 379, 381, 382
Bio-Fit	410
Bit Adapters	270
Bits, Screwdriver	268 - 270
Blades, Knife & Razor	291
BNC	
Crimp Tool	222
Bondhus	
Hex Drivers	277
Key Sets	276, 277
Torx Key Sets	278
Books	
Conversion Factors	193
Reference	172, 173, 436
Wireless Telecom	173
Wiring	172
Botron	
Continuous Monitors	349
Floor Mats	354, 355
Labels	360
Signs	360
Snap Tool	353
StaticTester	358
Table Mats	350 - 352

Wrist Strap Foot Wear Tester	344, 345
Bottles, Dispensing	445, 461 - 463
Bouffant Caps	446
Boxes	
Small Parts	367, 372, 373
Storage	366, 372, 373
Tool	57
Brady	
Labels	332 - 335, 337, 339
Printers	334 - 337
Ribbons	332, 333
Branson	487
Breakout Boxes	160
Brother	
Labeler	338, 339
Labels	338, 339
Brushes	305, 540
Burnisher	211, 304
Butane Tools	527
Butt Test Sets	194 - 197, 202, 209

C

C.K.

Bit and Screw Holders	321
Cutters	243, 244
Insulated Tools	281, 282
Pliers	243, 244
Screwdrivers	258, 262, 272, 273, 282
Strippers	217, 524
Tools	245, 321
Cabinets	
Parts	369, 371, 372
Roller	59
Storage	371, 374, 377, 383, 396
Cabinets & Racks	371, 373, 383
Cable	
Assemblies	161
Caster	174
Cat 5 Testers	159
Cat 5+	166
Coax Strippers	219, 225
Cutters/Strippers	216 - 219, 226, 227, 253
Installation Tools	171, 175, 176
Locators	157, 201
Pulling Videos	172
Reel Holder	171
Routers	174
Splicers	181
Strippers	216 - 219
Telecom	166, 207
Testers	152, 157 - 159, 181, 183, 193, 199
Ties	322, 323
Tracers	157, 208, 215
USB	165
Caig Laboratories	473
Calculator	331
Calibrators, Voltage/Current	109
Calipers	298, 299
Capacitance	
Meters	121, 128
Substituters	143
Carriers, Circuit Board	364
Carts	
Computer	391
Hand Truck	391, 394
Luggage	395
Oscilloscope	391, 393
Platform	394
Stencil Storage Unit	388
Tray	389
Utility	387, 388, 391 - 394

Wire-Shelf	384 - 386, 388
Cases	
Briefcase	55
Catalog	73
Circuit Board	69
Computer	73
Foam Filled	60, 61, 63 - 73
Foam Lined	60, 61, 63 - 65, 67
Laptop	73
Rack-Mount	62
Shipping	60 - 69
Shipping with Wheels	63 - 69
Shock-Mount	62
Tool	4 - 58
Tote	380
Category 5	
Patch Cords	165
Patch Panels	164
CATV	
Cable Tester	191
Waveform Monitor	192
CCI	
Bins	370
Shippers with Foam	370
Trays, Parts	370
Cementex	280, 281
Ceramic Alignment Tools	135
Chain Nose Pliers	238, 244 - 246, 251
Chairs	407 - 413
Ergonomic	407, 413
Static Safe	408, 412
Channellock	240, 255
Chart Recorders, Temperature	141
Chemtronics	456, 464, 467, 472, 473, 475 - 479, 532, 535, 539
Chicago Brand	298, 299
Chip Quik	324
Circuit Analyzers	131
Circuit Technology	324, 529
Circuit Trace Pen	538
Circuitworks	456, 479, 538, 539
Clamp Meters	116, 117, 119, 123, 124, 132
Clamps	124
Clauss	
Electrician Scissors	292
Fiber Scope	182
Softy Mat	186, 348
Wire Strippers	218
Clean Room	
Apron	447
Beard Covers	446
Bouffant Caps	446
Face Masks	446
Finger Cots	444
Gloves	444
Hand Lotions	445
Seating	407, 409
Shoe Covers	446
Sleeves	447
Swabs	465
Tacky Mats	447
Tyvek Lab Coats	446
Wipes	466
Cleaners	
Aerosol	473, 475 - 483, 485, 486
All-Purpose	469, 472, 476, 479
Anti-Static	341, 351, 355
Contact	476, 478 - 480, 485
Fiber Optic	185, 186, 464, 479
Glass	190, 472, 475
Pocket Pen	479
SMT Adhesive	454

**C (continued)**

Thinners & Fluxes .476, 477, 481, 482, 485, 486
Ultrasonic .487
Vacuum .329
Coax Cable
Adapters .91, 93, 190
Cable Adapters .91, 93
Cable/Wire .166, 228
Connectors .169, 228
Mapper .191
Strippers/Crimpers .206, 219 - 222, 228, 232
Termination Kit .206, 228, 232
Testers .155, 159, 208, 228
Coleman .166
Compass .331
Component Counters .530
Component Testers .121, 128, 133, 346
Conductive
Epoxy .456
Foam .366
Products .364, 367 - 372, 375, 376, 380 - 382
Conformal Coating .478, 483, 538
Conformal Coating Remover .479, 538
Connectors
Installation Tools .190
RS232 .168
Contact Cleaner .476, 478
Continuity Testers .136
Cordless
Drills .318
Screwdrivers .321
Soldering Irons .523
Counters, Multifunction .98, 99
Coupler, CAT 5 .163
Coventry .465, 467
Cramer .412, 413
CREATE-A-KIT .49
Crescent .256, 266
Crimp Terminals .169
Crimpers
10BaseT .223, 225, 230
25 Pair .226
Burndy .229
Butterfly .226
Category 5 Plugs .223, 225
Coax .221, 222
D-Sub .224
Daniels .220
Electrical Lugs .229
Hydraulic .229
Ideal .224
Jensen .222 - 224
Kits .230
MIL-Spec .220
Modular Plugs .223, 225
Paladin .221, 223, 225
RS-232 .220, 224
Solderless Terminals .224, 226
Telephone .223, 230
Crimping Tools .222, 230
Current Calibrators .109
Current Clamps .91, 116, 117, 119, 123, 124
Current Probe .116, 117, 119, 123, 124
Current Shunts .136
Cut & Crimp Tools .325
Cutters, Cable .226, 227
Electronic .237 - 240, 242 - 251, 256
Ergonomic .238, 245, 247 - 251
Hard Wire .247, 251

Kevlar .251
Pneumatic .251
Stainless Steel .243

D

D-Sub
Adapters .161
Connectors .168
Crimpers .224
Gender Changers .161
to Modular Adapters .161
Dale .107
Medical Grade Isolation Transformer .107
Patient Simulator .107
Safety Analyzer .107
Darkstar .158, 178, 201
Data Acquisition Systems .97
Dazor .421
Degausser .192
Degaussing Coil .192
Dental Probes .540
Dental Tools .431
Desco
Conductive Shoe Grounder .346
ESD Floor Mat .354
ESD Hand Lotion .361
ESD Jackets .347
ESD Safe 3 Ring Binders .359
ESD Safe Document Holders .359
Floor Mats .354
Grounding Cord .353
Ionizers .357
Mat Cleaner .352
Micastat Pads .352
Signs .361
Static Dissipative Mats .350 - 352, 354
Static Tester .358
Static-Shielding Bags .362
Tape .361
Topical Antistat .355
Wrist Strap Foot Wear Tester .345
Wrist Strap Tester .344
Wrist Straps .342
Desoldering
Braid .532 - 534
Kit .324
Pumps .534
Stations .497 - 499, 505 - 508, 515, 516, 518, 520, 521, 532, 533
Wick .316 - 319, 329
Dewalt .141
Dickson .76 - 79, 84, 86 - 89
DIP
Inserters .324
Tools .324
Dispensers .462, 463
Adhesives, Solvents .445, 448, 459 - 463
Fluid .461
Tape .536
Dispensing Bottles .461 - 463
Dispensing Guns
Manual .448
DMMs .109, 112, 113, 116, 117, 120 - 122, 128
Dremel .320
Drills
Accessories .268, 321
Bits .316, 317
Cordless .318, 319

Electric .318 - 320
Push .306
Sets .317
Twist .306
Drop Lights .433
DSL Test Set .199
Duct Tape .536
Dust Removers .475, 482, 483

E

Ear Protection .439
Earth Tester .132
Easy Braid .468
Eck Adams .413
Edsyn .499, 534, 542
Electrician's Knife .227
Electrician's Scissors .215, 292
Electrix
Illuminated Magnifiers .419
Engravers .320
Epoxy
Adhesives .453, 456
Conductive .456
Equipment Racks .365
Erem
Cutters .238, 239
Pliers .239
Tweezers .314, 315
Ergonomic
Chairs .407
Cutters .238, 242, 245, 247, 248, 250, 251
Hand Tools .238, 248 - 250, 258, 259, 282
Pliers .238, 242, 245, 247, 248
Sets .245, 258, 259, 282
ESD
Bags .362, 363
Benches & Workstations .398 - 400, 404 - 406
Binders .359
Brushes .305
Cleaner .351, 355
Clipboard .359
Coating .341
Coats .347
Combo Testers .345
Constant Monitor .348, 349
Field Service Kits .348
Finger Cots .442, 444
Floor Finish .341, 355
Foam .366
Grounding Plug .342
Ionized Air Blowers .356, 357
Ionized Air Guns .356, 357
Labels .361
Lotions .341, 361
Mats .348, 350 - 352, 354, 355
Monitor .349
Screwdrivers .258, 273
Shoe Grounders .346
Sign .360, 361
Static Dissipative Labels .335
Static Dissipative Mats .350
Surface Test Kits .358
Tape Dispenser .360, 361
Tapes .360, 361
Testers .344, 345, 358
Trays .369, 382, 389
Warning Tape .360
Waste Basket .359
Work Surface .348, 350 - 352, 366, 385

Workstations & Benches .185 - 406
Wrist Strap Tester .344, 345
Wrist Straps .342 - 344
Esico .528
Ethernet Jacks .163
Excellta .309
Cutters .246, 247
Pliers .246, 247
Tweezers .310 - 313
Extech
Cable Testers .158
Clamp Meters .123
DMMs .120
Fiber Optic Tester .183
Handheld Scope .90
Humidity Indicators .142
Hygrometers .141
Light Meters .142
Megohmmeters .128
Power Supplies .104
Sound Meters .108, 142
Thermometers .141, 142
Timers .131
Extension Cords .139, 433, 437
Extractors
DIP & PLCC .324
Eye Loupes .430
Eye Protection .439
EZ Hook .134

F

Face Masks .446
Fancort .364
PC Board Assembly Aids .324
Turntables .364
Fans, Exhaust .544
Feeler Gauges .297
Fiber Inspection Scope .182, 185, 428
Fiber Optic
Cleaners .185, 186, 464
Crimpers .186
Epoxy Kit .187
Fault Locator .183
Light Source .183
Loss Tester .178
Polishing Fixtures .186
Safety Kit .186
Scopes .177, 185
Strippers .185, 186
Swabs .464
Talk Sets .178
Termination Kit .187, 188
Test Instruments .177
Testers .178 - 180, 183, 185
Field Strength Analyzer .95, 192
Files .304
Finger Cots .440, 442, 444
Finger Tape .440
First Aid Kit .438
Fish Tapes .173 - 175
Fiskars
Scissors .292
Shears .185, 292
Snips .293
Flashlights .175, 433 - 436
Floor Panel Puller .171
Fluke
Accessories .112, 124 - 126, 134
Clamp Meters .116, 117, 124
Current Calibrators .109
Current Probes .91, 124
DMMs .109, 112 - 114, 116, 117
Megohmmeters .130



F (continued)

Oscilloscopes	86, 87
Power Quality Analyzers	130
Probes	87, 92, 124 - 126
Process Calibrators	109
Thermometers	140
Fluke Networks	
Cable Tester	150, 151, 177
Fiber Optic Tester	180 - 184
Light Source	183
Network Tester	149, 151, 152
OTDR	182
Flux	
Pens	490, 538
Remover	469, 477, 480, 481, 485, 486, 538
Soldering	489, 491
Thinners & Cleaners	477, 479, 480, 486, 489, 491, 538
Forceps/Hemostats	539
Fowler	298, 299
Freeze Sprays	475, 482, 483
Frequency Counters	98, 99
Fume Extraction Systems	517, 541 - 544
Function Generators	99, 100
Fuse Pullers	211

G

Garmin	326, 327
Gauges, Pin	299
GE Silicones	457
Gender Changers	161
General	275
Scribers	431
Gerber	287, 289
Gillis	391
Glasses, Protective	439
Global Specialties	143
Gloves	
Anti Static	441 - 444
Cotton	440 - 442
Cotton Canvas	440
Latex	441, 444
Leather Palm	440
Nitrile	441, 444
Nylon	442, 443
Static Dissipating	443
Vinyl	441, 444
GLPT Insulating Varnish	456
Glue Guns	307, 456
Golnax	
Torque Screwdrivers	301
Gopher Pole	173
Gordon Brush	305
GPS Receivers	326, 327
Ground Cord	353, 355
Ground Straps	342, 343, 346, 353, 355
Ground System Testers	123, 132, 344, 345
Grounding Plug	342

H

Hacksaws	296
Hammers	296
Hand Lotions	341, 361, 445
Hard Hat	438
Harmonic Analyzer	130M
Harness Board Posts	324
Harris	194 - 199, 206, 210 - 213
Harts	411

Heat Guns	526
Heat Shrink Tubing	527
Heat Sink Grease	539
Hemostats/Forceps	293, 539
Hewlett Packard	
Counters	98
Current Shunts	136
Data Acquisition System	97
Device Probes	134
DMMs	129
Function Generators	100
Oscilloscopes	89, 91
Power Supplies	105, 106
Hex Drivers	260, 277, 278
Hex Key Sets	276 - 278
Hios	300 - 303, 536
Hitachi	88, 90
Holding Fixtures	323, 365
Hole Saws	317
Hook & Loop	359, 537
Hot Air Soldering	497, 498
Hot Plate	530
HP	89, 97, 98
Humidity Indicators	363
Humidity Meter	142
Hunttron	
Component Testers	133
Hygrometers & Thermometers	141

I

IAC	398, 399
IC	
Lotion	445
Test Clips	135
Tools	324
Ideal	
Cable Testers	159
Crimpers	221, 232
Receptacle Analyzers	131
Strippers	216, 218, 219
Strippers/Crimpers	219
Termination Kits	206, 232
Illuminated Magnifiers	414 - 419, 421, 424, 427, 429, 430
Independent Technologies	157
Inductance Meters	128
Inserters, DIP	324
Insertion/Extraction Tools	170
Inspection	
Arrows	539
Gloves	442
Lights	414 - 421, 427, 429, 430, 432
Mirrors	432
Systems	421
Instek	
Oscilloscope	88
Power Supplies	104
Spectrum Analyzer	96
Insulated Tools	280 - 283
Insulating Varnish	456
Insulation Tester	128, 132
InterMetro	365, 384 - 389
Ionized Air Blowers	356, 357
Ionized Air Guns	356, 357
Ionizers	356
ISDN Test Set	198
Isolation Transformers	103, 107
Isopropyl Alcohol	472, 482, 486
Isotip	523

J

JBC	513 - 516
Jensen	155
Butt Sets	200
Cable Testers	155
Clamp Meters	119
Cordless Screwdriver	321
Create-A-Kit	49
Modular Test Adapter	205
Punchdown Tools & Blades	205
Screwdrivers	275
Telecom Tools	205
Tone & Probe	205
Wire Strippers	216
Jensen Tool Kits	
JTK-10	25
JTK-1002	22
JTK-1003	22
JTK-16	25
JTK-17	12 - 16
JTK-18	188
JTK-19	22
JTK-2000	46
JTK-2001	44
JTK-2100	42
JTK-23C	32
JTK-26	188
JTK-27	187
JTK-2900	44
JTK-31	26
JTK-32	20
JTK-3300	27
JTK-34	47
JTK-36	23
JTK-44	38
JTK-4400	40
JTK-45	37, 194
JTK-46	39
JTK-47	21
JTK-48	19
JTK-49	48
JTK-4SD	45
JTK-4V	47
JTK-5	41, 148
JTK-50	46
JTK-5000	43, 148
JTK-51	37, 194
JTK-53	36
JTK-55	17
JTK-6100	45
JTK-67	32
JTK-6C	27
JTK-75	34
JTK-7500	34
JTK-77	17
JTK-78	35
JTK-81	26
JTK-86	24
JTK-87	6 - 11
JTK-88	31
JTK-91	30
JTK-93	28
JTK-94	33
JTK-96	33
JTK-97	29
JTK-99	18
VK-1	53
VK-2	53
VK-5	53
VK-6	53
VK-7	52
VK-8P	52

Jeweler's Screwdrivers	272 - 274
JNJ Industries	468, 469

K

Kahnetics	460
Kennedy	59
Kester	488 - 491
Keystone Jacks	163
Kimwipes	466
Klein	
Crimping Pliers	221
Cutters	240
Pliers	240
Screwdrivers	258
Knee Pads	438
Knives	287, 289 - 291
Kolver	301

L

Lab Caps	446
Lab Coats	347, 446
Labels	
ESD	360, 361
Identification	332 - 337, 339
Printers	336 - 339
Remover	479
Lacing Needles	215
Lamp Extractor	211
Lamps	
Inspection	427
Inspection Lights	415, 418, 420
Lights	414, 417, 419 - 421
Magnifiers	414 - 421, 427, 429, 430
LAN	
Cable	166
Jack Identifiers	153
Jacks	163
Protocol Analyzers	152
Termination Kits	206, 230, 232
Testers	152 - 155, 158, 159
Tool Kits	260
Troubleshooters	152
LANMaster	
Outlet Identifiers	153
LCR Meters	121, 128
Lead Bending & Forming Tools	324, 325
Leader	
Oscilloscopes	90
Power Supplies	104
Vector Scope	192
Leads, Test	124, 134, 136
Leatherman	287, 288, 290
Levels	296
Leviton	174
Lewis Bins	382
Light Meters	142
Lights, Inspection	414 - 421, 427, 429, 430
Lindstrom	248, 249
Line Tracers	202 - 205, 214
Load Coil Detectors	209
Locks	10, 68, 71, 331
Loctite	448 - 450, 452 - 457
Lotions, Hand	341, 445
Antibacterial	445
Loupes, Eye	430
Lubricants	473
Luggage Carts	394, 395
Luxo	
Accessories	415, 422
Illuminated Magnifiers	414, 415, 420

L (continued)

Inspection Lights	420
Lamps	420
Lenses	414
Lyon	
Cabinets	383
Shelving	383, 390

M

Maglite	436
Magnetic Pick-up Tools	432
Magnetizer/Demagnetizer	275
Magnifiers	414 - 419, 421, 424, 427, 429, 430, 436

Makita	319
Mantis	427

Mask, Solder	
Liquid	535
Tape	535, 537

Master Appliance	526, 527
-------------------------	----------

Master Lock	331
--------------------	-----

Mats	
------	--

Anti-Fatigue	354, 355
Field Service	348
Static Protective	348, 350 - 352, 354, 385
Tacky	447

Measuring Tools	309
-----------------	-----

Calipers	298, 299
----------	----------

Ruler	297
-------	-----

Measuring Wheel	172, 297
-----------------	----------

Megger	132, 179, 198
---------------	---------------

Loop Tester	214
-------------	-----

OTDR	184
------	-----

TDR	159, 191, 201
-----	---------------

Voice Analyzer	198, 214
----------------	----------

Megohmmeters	130, 132
--------------	----------

Meiji	426
--------------	-----

Menda	136, 278, 329, 461, 462, 540
--------------	------------------------------

Metcal	517 - 522, 544
---------------	----------------

MeterMan	121
-----------------	-----

Meters, Test	
--------------	--

Capacitance	121, 128
-------------	----------

Digital	113, 114, 122, 128
---------	--------------------

Megohmmeters	128
--------------	-----

Multimeters	112, 114, 116, 117, 122, 128
-------------	------------------------------

Power Quality	130
---------------	-----

RCL (LCR)	121
-----------	-----

Static Control	358
----------------	-----

Temperature	140 - 142
-------------	-----------

Metro	
--------------	--

Casters	385, 386
---------	----------

Shelving Systems	384 - 386, 390
------------------	----------------

Stencil Storage Unit	388
----------------------	-----

Tote Carts	365, 388
------------	----------

Tray Carts	389
------------	-----

Utility Carts	387, 388
---------------	----------

Wire Shelving	384 - 387, 390
---------------	----------------

Wire-Shelf Carts	389
------------------	-----

MFG	
------------	--

Trays & Totes	382
---------------	-----

Micro Care	467, 471, 472, 479 - 482
-------------------	--------------------------

Micrometers	298
-------------	-----

Microscopes	421, 422, 424 - 428, 430
-------------	--------------------------

Milbar	225, 254
---------------	----------

Milwaukee	318, 319, 526
------------------	---------------

Mirrors, Inspection	175, 432
---------------------	----------

Mitutuyo	298
-----------------	-----

Modular	
---------	--

Adapters	163
----------	-----

Couplers	163
----------	-----

Plugs	167
-------	-----

Test Adapter	211
--------------	-----

To D-Sub Adapters	161
-------------------	-----

Molex	156
--------------	-----

Monitor Tester	189
----------------	-----

Moody	272 - 274, 306, 431
--------------	---------------------

Mountz	302, 303
---------------	----------

Mueller	136
----------------	-----

Multi-Purpose Tools	287 - 290
---------------------	-----------

Multifunction Counters	98
------------------------	----

Multimeters	
-------------	--

Accessories	121, 122, 124 - 126, 134, 136
-------------	-------------------------------

Digital	112, 114, 116, 117, 120 - 122, 128
---------	------------------------------------

N

Needles	
---------	--

Cable Lacing	215
--------------	-----

Disposable	459, 460
------------	----------

Network Testers	152, 153
-----------------	----------

Nibbler Tools	296, 306
---------------	----------

No Nix Fiber Strippers	186
------------------------	-----

Noyes	
--------------	--

Fiber Optic Talk Set	178
----------------------	-----

Fiber Tester	177, 178, 185
--------------	---------------

Optical Loss Tester	178
---------------------	-----

Null Modems	161
-------------	-----

Nut Starters	278
--------------	-----

Nutdrivers	260, 278
------------	----------

Insulated	281
-----------	-----

Sets	279
------	-----

O. C. White	
--------------------	--

Illuminated Magnifiers	416
------------------------	-----

Smoke Absorbers	543
-----------------	-----

Oilers, Instrument	473
--------------------	-----

OK Industries	
----------------------	--

IC Tools	324
----------	-----

Smoke Absorbers	543
-----------------	-----

Wire Wrapping	234, 235
---------------	----------

Olympic	364, 380, 381
----------------	---------------

Optical Fault Locator	180
-----------------------	-----

Optical Light Source	179
----------------------	-----

Optical TDR	182, 184
-------------	----------

Orange Sticks	540
---------------	-----

Oscilloscope Accessories	92
--------------------------	----

Carts	393
-------	-----

Probes	91 - 94
--------	---------

Oscilloscopes	78, 79, 82 - 84, 86 - 90
---------------	--------------------------

Link Instruments	88
------------------	----

Outlet Strips	139, 437
---------------	----------

Ovens	530, 531
-------	----------

P

Pace	
-------------	--

Accessories	511
-------------	-----

Desoldering Handpieces	508, 511
------------------------	----------

Desoldering Stations	505, 506, 508
----------------------	---------------

Desoldering Tips	504, 509
------------------	----------

Fume Extraction Systems	541, 543
-------------------------	----------

Hot Air Tools	509
---------------	-----

Lead Bending & Forming Tools	325
------------------------------	-----

Removal Tips	501
--------------	-----

Replacement Parts	508, 511
-------------------	----------

Rework Nozzles	510
----------------	-----

Rework Stations	505, 507, 508
-----------------	---------------

Rework Tips	504, 508 - 510
-------------	----------------

Smoke Absorbers	544
-----------------	-----

Soldering Stations	500 - 503, 505, 508, 509
--------------------	--------------------------

Thru-hole Irons	503
-----------------	-----

Paladin	159
----------------	-----

Crimpers	219, 221
----------	----------

Strippers	219, 221
-----------	----------

Panasonic	321
------------------	-----

PanaVise	323
-----------------	-----

Parts	
-------	--

Bins	367, 374 - 379, 381
------	---------------------

Boxes	366, 367, 372
-------	---------------

Cabinets	369, 371, 372
----------	---------------

Trays	370
-------	-----

Patch Cords	165
-------------	-----

Patch Panels	164
--------------	-----

Pattern Generator, TV	189
-----------------------	-----

PC Board	
----------	--

Carriers	364
----------	-----

Holders	364, 365
---------	----------

Racks	364
-------	-----

Repair Kits	324, 529, 538
-------------	---------------

PC Diagnostics	192, 193
----------------	----------

PCB	
-----	--

Assembly Aids	324, 365, 529
---------------	---------------

Assembly System	323
-----------------	-----

Pelican	
----------------	--

Cases	68, 71, 73
-------	------------

Lights	290, 434
--------	----------

Locks	10, 68, 71
-------	------------

Penlights	436
-----------	-----

Permabond	452
------------------	-----

Phone Line Checker	205
--------------------	-----

Phone Line Simulator	215
----------------------	-----

Photo-Tachometers	139
-------------------	-----

Pick-up Tools	431, 432
---------------	----------

Plato	
--------------	--

Cutters	250
---------	-----

Dispensers	463
------------	-----

Solder Pots	528
-------------	-----

Soldering Tips	524, 525
----------------	----------

Sponges	525
---------	-----

Tip Tinner Cleaner	539
--------------------	-----

PLCC	
-------------	--

Extractors	324
------------	-----

Test Clips	135
------------	-----

Pliers	224, 243, 252 - 256
--------	---------------------

Crimping	221
----------	-----

Electronic	237 - 241, 243, 246 - 251, 256
------------	--------------------------------

Ergonomic	238, 246 - 249
-----------	----------------

Groove Joint	254, 255
--------------	----------

Kits	237, 256
------	----------

Lineman's	253
-----------	-----

Locking	256
---------	-----

Retaining Ring	255
----------------	-----

||
||
||



S

SAF-T-LOK	451
Safety	
Back Support	438
Ear Protection	439
Eye Protection	439
First Aid Kit	438
Hand Protection	440 - 442, 444
Hard Hat	438
Knee Pads	438
Sleeves	447
Vest	438
Wire Twisters	252
Satellite Finder	189, 192
Saws	296, 319
Saws, Hole	174, 317
Sciencscope	424, 425
Scissors	206, 221, 222, 225, 232, 292, 293
Screw Extractors	317
Screw Feeders	300
Screwdrivers	
10-in-1	265
12-in-1	273
30-in-1	274
4-in-1	263
52-in-1	266
6-in-1	263
Cordless	316, 321
ESD-Safe	258, 263, 271, 273
Insulated	281, 282
Interchangeable Blade	260, 261
Japanese Cross Point	262
Jeweler's	272 - 274
Miniature	271 - 274
Multi-bit	263 - 267, 274
Offset	257, 258, 267
Phillips	257 - 259, 263, 271, 272, 274, 275, 282
Precision	263, 271 - 274
Ratchet	265 - 267
Screwholding	262
Sets	257 - 259, 262, 263
Slotted	257 - 259, 263, 271, 272, 275, 282
Torque	300 - 303
Torque Limiting	302, 303
Torx	258, 262 - 264, 271, 273
Screwstarters	275
Scribers	186, 306, 431
Sealants	449
Security Systems	
Tester	214
Seizers	539
Shears	
Fiber	185
Shelving	377, 379, 383 - 387, 389, 390
Shielding Tape	537
Shipping Cases	60 - 69
Shoe Covers	446
Shoe Grounder	346
Shrink Tubing	527
SideKick	209
Siemon	157, 211, 215
Signal Level Meter	189
Silicone Heat Sink Grease	539
Silicone Sealants	451
Simco	356-357
SMD Grabbers	126
Smoke Absorbers	541 - 544
SMT	
Desoldering	498, 499, 506, 507, 522

Hot Air Tools	498
Removal Kit	324
Repair Kits	538
Rework Stations	506, 507, 518, 520, 521
Soldering	494, 497, 499, 506, 507, 521
Soldering Aids	540
Snap Tool	353
Snips	293
Socket Wrench Sets	286
Software	92
SOG	
Multi-Purpose Tools	287, 289
SOIC Test Clips	135
Solder	488
Solder Mask	
Liquid	535
Tape	537
Solder Pots	528
Solder Removal	532, 533
Soldering	
Aids	305, 324, 463, 464, 488, 529, 538 - 540
Chemicals	538
Flux	489, 491
Iron Testers	497
Irons	495, 496, 499, 503, 513 - 516, 523, 527, 534
Paste	490
Pots	528
Stations	493 - 497, 499 - 503, 505 - 508, 513, 515 - 518, 520, 521, 523, 530
Tip Cleaners	539
Tips	493, 495, 496, 514, 524, 525
Wick	532 - 534
Solderless Terminals	169
Solvent Dispensers	461 - 463
Solvents	469, 471 - 473, 475 - 478, 480 - 483, 486
Sound Level Meters	142
Spatulas	463
SPC/SQC Tools	298
Spectrum Analyzers	95, 96
Splicer Kit	187, 212
Spline Drivers	276
Spring Hooks	432
Spudgers	210, 540
Staco	143
Stanley	139, 286, 295, 437
Hammers	296
Knives	290, 291
Levels	295, 296
Pliers	255, 283
Screwdrivers	257, 283
Socket Set	286
Tape Measures	295
Wallboard Saws	296
Wrenches	284
Stanley Vidmar	
Benches	397
Workstation	397
Staplers	307
Static Control Products	341 - 363, 366, 370, 385, 408, 410 - 413, 442 - 444
Meters	344, 345, 358
Protection Products	341 - 346, 348 - 363, 366, 370, 385, 390, 408, 410 - 413, 442 - 444, 461, 462
Shielding Bags	362, 363

Static Control Components	343, 346, 350, 351, 362, 363, 540
Stencil Wipes	471, 472
Step Stool	413
Stool	413
Storage	
Bench Racks	377, 378
Bin Dividers	379
Bin Hanging System	376, 391
Bins	369, 373 - 379, 396
Cabinets	371, 373, 396
Parts Cabinets	369, 373, 396
Racks	364, 365, 377, 378
Tube Holders	369
Streamlight	435
Strippers	
Cable/Wire	216 - 219, 225
Fiber Optic	185, 186
Stud Sensor	175, 295
Sturtevant-Richmont	303
Substitution Boxes	143
Suction Lifter	171
Sunnex	419
Surge Suppressors	139, 437
Suunto	331
Swabs	464, 465
Swanstrom	242
Syringes, Disposable	458 - 460

T

T1 Test Set	198, 201
Tacky Entrance Mats	447
Talkset	178
Tap & Drill Sets	306, 317
Tape Dispensers	536
Tape Dots	324, 529, 537
Tape, Duct	536
Electrical	536
EMI/RFI	537
ESD-Safe	359, 361
Hook & Loop	537
Measures	295
Safety	440, 537
Shielding	537
Solder Masking	537
Tapping Tool	306
TDR	159, 191, 201, 208
Tech Wear	347
Techcon Systems	458, 459
Techform	535
TechSpray	186, 359, 464, 468, 472, 483, 485, 486, 538
Tektronix	
Oscilloscopes	78, 79, 82 - 84
Probes	92, 94
Telecom	
Butt Sets	200
Connectors	211
Modular Test Adapter	210, 215
Splicers	211
Tester	209
T1 Tester	201
Test Sets	200
Tools & Instruments	205, 206, 208, 210 - 213, 215, 262
Tools & Testers	155, 157, 194 - 199, 202 - 206, 209, 212, 214
Temperature Meters	140 - 142
Tempo	159
Cable Locator	201
Phone Adaptor	204
Resistance Fault Meter	202

Tone & Probe	191, 202 - 204, 206
Termination Kits	187, 188, 206, 230, 232
Test Clips & Leads	93, 126, 127, 134, 135
Test Equipment	
Cable	215
Component	121, 128
Continuity	136
Counters	98
Data Acquisition System	97
DMMs	112, 114, 116, 117, 122, 127
Frequency Counters	99
Function Generators	100
Light	142
Megohmmeter	128, 130, 132
Multimeters	113, 122
Oscilloscopes	78, 79, 84, 86 - 90
Power Quality Analyzers	130
Power Supplies	101 - 105
Prototyping	143
Solder Iron	497
Sound Level	142
Spectrum	95, 96
Tachometers	139
Telecom	194 - 197, 202, 204, 206, 209
Telephone	157, 194 - 197, 202 - 206, 209
Temperature	140 - 142
Test-Um	157, 189, 191, 214
Testers	
Battery	147, 437
Cable	155 - 159
Fiber Optic	185
Patch Cords	190
T1	201
Texwipe	467
Thermometers	120, 140 - 142
Thomas & Betts	190
Threadlockers	449, 451
Timers	131
Tips, Disposable	458, 459
Tone Generators	154, 157, 199, 202 - 206
Tone Test Sets	154, 191, 207, 214
Tool	
Bags	55, 56
Belts	57, 58
Boxes	56, 57
Cases	54 - 58
Chests	56, 59
Kits	2 - 53
Termination Kits	232
Torque Testers & Tools	300 - 303
Torx Drivers	262, 263, 273, 274
Torx Key Sets	276, 278
Tote Boxes	380 - 382
Totes	368, 381, 382
TPI	91, 93, 94, 190
Transformers	
Isolation	103
Variable	143
Trays, Parts	369, 370, 382, 389
Triplett	138, 206, 207
Tripp Lite	139
Turntable	364, 365
Tweezers	308 - 315
Conductive	312
Ergonomic	313, 315
SMD	312
Static Dissipative	312

U

Ullman	
Inspection Mirrors	432
Magnetic Pick-up Tools	432
Ultrasonic, Cleaners	487
Ultraviolet	
Inspection Lamps	415
Utica	
Torque Drivers	302
Torque Tools	303
Utility Knife	290
Utility Lights	433
UTP	
Crimp Tools	230, 232
UVEX	439

V

Vacuum	
Cleaners	328, 329
Pick-up Tools	431
Vantage Kits	
VK-1	53
VK-2	53
VK-5	53
VK-6	53
VK-7	52
VK-8P	52
Variable Transformers	143

Vermont American	
Multi-bit Screwdrivers	263
Tap & Drill Sets	306
Vidmar	396, 397
Vise Grip	256
Vises	323
Vision Engineering	427
Voltage	
Current Calibrators	109
Detectors	123, 136, 146
Reference Sources	109

W

Waber	139
Wahl	523
Waldmann	417
Wallplates	162
Waste Basket	359
Watt Meters	193
Wave Solder Aids	537
Wavetek	
Component Testers	121
DMMs	121, 122
Weller	493 - 498, 523, 526, 527, 535
White, O. C.	416
Illuminated Magnifiers	416
Smoke Absorbers	543

Wick	
Desoldering	532 - 534
Wiha	263, 271, 273, 278
Wilcom	180, 183
Wipers	190, 341, 466 - 468, 471 - 473, 479, 486
Wipes, Stencil	468, 469, 471, 472
Wire	
Installation Tools	173, 175, 176
Markers	336, 337, 339
Wire Cable Strippers	216-218, 228
Wire Tacking Adhesives	448
Wire Wrapping	234, 235
Wiring Video	157
Work Holders	323
Work Lights	433
Worklon	347
Workstations/Benches	185 - 406
Wrenches	
Adjustable	284, 285
Booth	205, 206, 262
Can	205, 206, 262
Combination	284, 285
Crescent	284
Insulated	280 - 282
Miniature	284, 285
Open End	284, 285
Torque	303
Wrist Strap Testers	344, 345
Wrist Straps	342, 343

X

Xacto	290, 291
Knives	291
Xcelite	
Coax Stripper	219
Cordless Screwdriver	316, 321
Crimpers	219, 222
Cutters	236 - 238, 249, 250
Handles	260
Hex Drivers	260, 278
Nutdrivers	260, 261, 278
Pliers	236 - 238
Screwdrivers	259, 260, 263, 271
Tool Sets	259, 261, 263, 278
Torx Drivers	260, 262, 300
Xuron	
Cutters	250, 251
Lead Formers	325
Pliers	250, 251
Shears	250

Z

Zephyrtronics	531
----------------------	-----

TERMS & CONDITIONS

PAYMENT

We accept Visa®, Mastercard®, Discover®, or American Express®. When prepaying by check, please mail orders to:

Contact East / Jensen Tools
335 Willow St.
N. Andover, MA 01845-5995

Net 30 day terms are extended to customers with an opening order greater than \$200.00 and approved credit. To request terms, please fax 3 trade credit references and a bank reference to our Credit Department at 978-688-7532. You may also submit a credit reference request form at our web sites: www.jensentools.com or www.contacteast.com.

TAXES

Applicable sales tax will be added to all orders. If you are exempt from sales tax, please provide a signed exemption certificate based on your shipping address location with your order. You may fax your certificate to 978-688-7532.

WARRANTIES

All warranties are manufacturer warranties, unless otherwise noted.

PRICING

Volume and quantity discounts may apply, please call your Customer Support Representative for information. Some products require minimum purchase quantities as specified by the manufacturer. We do not have a minimum order requirement however orders totaling less than \$50.00 may be subject to receive a \$10.00 small order fee. All prices are in U.S. dollars. Catalog prices are subject to change without notice.

INTERNATIONAL CUSTOMERS

Contact East / Jensen Tools welcomes its global customers. Payment methods include international cashier check, international money order, wire transfers, or irrevocable letters of credit by a confirmed bank. For Net 30 terms, please include 3 to 5 U.S. trade references and a U.S. bank. Proforma invoices sent on request. Please call 602-453-2502 to place an order.

SHIPPING

Orders are shipped FOB our distribution center, or factory, unless otherwise agreed to by Contact East / Jensen Tools. We will prepay and add freight charges to your invoice. Questions related to actual freight charges should be directed to a Customer Support Representative. Overweight, oversized or hazardous items will be subject to carrier surcharges or add-on fees.

RETURNS AND EXCHANGES

We want you to be 100% satisfied with your purchases. If for any reason you need to return or exchange a product within 30 days of purchase, please call Customer Service at 1-888-887-9473 for the correct return address for your area and a Return Authorization Number (RA#). Packages not returned within 30 days and without RA#'s clearly and visibly marked on the outside of the package may be refused. All returns must be shipped prepaid, in manufacturer's original packaging, in resalable condition and are subject to inspection for damage or misuse prior to issuance of a credit. Most chemicals and many special ordered products are not returnable. Returns may be subject to a restocking charge. This policy may be altered for special circumstances.

Note: Charges for calibration services are not refundable. In no event shall Contact East / Jensen Tools be liable for any claim for incidental or consequential damage arising out of or in connection, manufacture, delivery or use of any product offered in this catalog or by other means.



NEW PRODUCTS

JENSEN®

JTK®-17B

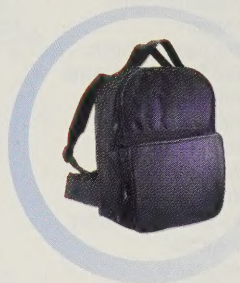
Backpack Tool Kit

- The ultimate in hands-free versatility
- Contains all the tools from our very popular JTK-17 kits

Carry your tools comfortably on your back while keeping your hands free. Tool pallets fold out for easy access. Case features a rugged nylon exterior, heavy-duty dual-pull zippers, internal document pouch and two outside zipper pouches for test equipment and large items like a cordless drill. There is even room for a laptop computer. Padded waist belt and shoulder straps are fully adjustable. Web strap handles allow for hand carry.

Part No.	Description	Case Style	Weight (lbs.)	Price
JTK-17B	BackPack Tool Kit	Backpack	14	\$475.00
423-773	Backpack tool case	—	—	\$150.00

More Tool Kits and Cases on pages 2 - 53



GARMIN®

GPSMAP 60

- Automatic route calculation
- Waterproof
- 256 Color display

The GPSMAP® 60C and GPSMAP 60CS hand-held receivers are lightweight, rugged and waterproof. Highly reflective 256-color display provides easy viewing in almost any lighting condition. Other features include a USB and serial interface, detailed basemap with general map data including highways, major roads and borders. Receivers come with external quad helix antenna, PC/USB interface cable, MapSource Trip & Waypoint Manager CD-ROM, belt clip and Lanyard.

The GPSMAP 60CS is also equipped with built-in electronic compass and barometric altimeter along with Glide Ratio/Vertical Speed to Destination features.

Part No.	Description	Price
423-770	GPSMAP 60C	\$499.00
423-771	GPSMAP 60CS	\$555.00
428-700	Optional Carrying Case	\$12.70
473-002	AA Alkaline Battery	\$0.94

More GPS units on pages 326 & 327



STANLEY

Vidmar®

Utility Cart

Lightweight, Heavy-Duty and Easy to Maneuver

- Overall storage capacity 600 lbs.
- Two drawers with steel frame and roller bearing guides
- Drawers measure 25-1/8" W x 19-1/4" D
- Drawers can be sub-divided using Vidmar drawer partitions and dividers
- 150-lbs. capacity per drawer
- Ribbed rubber shelf mats (1/8" thick)
- 5" hard rubber casters (2 locking)
- Cart measures 30" L x 30" W x 37 H" (with casters)

Part No.	Model	Description	Price
425-420	RP5001	Utility Cart	\$823.50

More Vidmar products on pages 396 & 397



NEW PRODUCTS

SWISS+TECH®

Micro Plus 8-in-1 Tool

■ Lifetime manufacturer's warranty

Patented designed tool folds and locks on any key ring. Includes pliers, 2 Phillips screwdrivers, 2 slotted screwdrivers and a wire cutter/stripper. Notches for secure grip and quick measurements. Presentation box. 1 x 1-7/8 x 1/4".

Part No.	Description	Price
143-004	Micro Plus 8-in-1 Tool	\$13.85

More Hand & Power Tools on pages 216 - 325



Automatic Electrical Tester

Automatic Measurement of Amperage, Voltage & Resistance

- Compact design for measuring in tight spaces
- 400A AC, 600V AC/DC measurement
- Data hold to capture important readings
- Auto off for longer battery life
- Includes: (1) 9V battery, test leads & carrying case

Part No.	Model	Description	Price
424-287	CMT-80	Electrical Tester	\$90.00

More Test Equipment on pages 74 - 147



Advanced Fiber Solutions Fiber Optic Test Kit

Complete Solution for Installer to Test, Terminate, Troubleshoot & Document Fiber Optic Systems

- Optical power meter calibrated wavelengths: 850/1300/1310/1550
- Multimode optical source wavelengths: 850, 1300
- Singlemode optical source wavelengths: 1310, 1550
- Accuracy: $\pm 0.2\text{dB}$ (NIST traceable)
- Measurement units: dBm (absolute) - dB (relative)

Test kits are designed to allow testing of all parameters of optic networks, including output power levels from the fiber, coupled source power and attenuation loss in a cable. Two models to choose from. Model OLK-51MM is a test kit designed for multimode operations. Model OLK51-SM is designed to test single-mode fiber optic cable. Kits come with the OM120 Optical Power Meter and the OS420 Optical Power Source for multimode applications, the OS430 optical power source for singlemode applications and carrying case. Operates on 4AA batteries or AC power converter.

Part No.	Model	Description	Price
425-047	OLK51-MM	Multimode Test Kit	\$1,095.00
425-048	OLK51-SM	Singlemode Test Kit	\$1,990.00

More Fiber Optic Test Kits and Solutions on pages 177 - 188



KOLVER

Inspector PLC/Power Supply/Controller for FAB & RAF Screwdrivers

Never Ship a Incomplete or Damaged Assembly Again

- Real time tracking of completion of each screw joint in an assembly
- Identification of skipped/missing screws, snapped screw heads and incorrect screws
- Provides feedback for completed assemblies, total accepted and rejected assemblies, screw rundown time and torque trigger time

The Inspector is a PLC based process control system that monitors when a driver starts and stops, comparing actual screw time to pre-set max/min times and failing joints that fall out of the process window. It then compares the number of good joints to the preset number in an assembly. The Inspector keeps a summary of good and incomplete assemblies throughout the production day.

Part No.	Model	Price
425-526	EDU1NS/PLC	\$674.60

More Torque Tools on pages 300 - 303



Products for Testing, Assembling, Repairing & Installing Electronic Equipment™



Contact East / Jensen Tools
335 Willow Street
North Andover, MA 01845-5995

Your Account Number

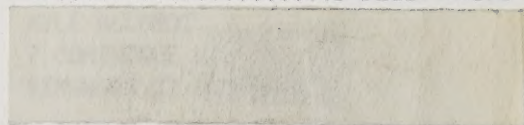
CUST# P999900062607

Reference Code

CODE: 05A43



*****5-DIGIT 06070



0001
P291
729

Bound Printed Matter
Presorted
U.S. Postage
PAID
Contact East, Inc.

CHANGE
SERVICE
REQUESTED

1-800-225-5370

MAILROOM — Please Recycle.

If undeliverable to the addressee please route to the engineering/production department.
For name and address corrections, please fax this page to 1-866-288-8991